

**N72-15923**

**NASA SP-7040**

**CASE FILE  
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**NASA  
THESAURUS  
ALPHABETICAL  
UPDATE**

**SEPTEMBER 1971**



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**NASA  
THESAURUS  
ALPHABETICAL  
UPDATE**

**SUBJECT TERMS FOR INDEXING  
SCIENTIFIC AND  
TECHNICAL INFORMATION**

**SEPTEMBER 1971**



SCIENTIFIC AND TECHNICAL INFORMATION OFFICE 1971  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

*Washington, D.C.*





## FOREWORD

The preliminary version of the *NASA Thesaurus* (NASA SP-7030) was issued in December 1967, and it is planned to publish the first edition in late 1972. In the interim, new terms have been added to the "working" *Thesaurus* which have not been reviewed intensively. These terms have been largely unavailable to those users who purchased copies of the Preliminary Edition. As a service to this group of users, this up-dated interim version has been prepared. It contains 17,189 terms (14,002 of them postable).

The *NASA Thesaurus* is being reviewed term-by-term, and it is anticipated that the first edition will contain changes in structure and organization. Recommendations for candidate terms for inclusion in the first edition and any other comments or suggestions will be welcome. These should be addressed to:

Scientific and Technical Information Office  
Code KS  
NASA Headquarters  
Washington, D.C. 20546

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# INTRODUCTION

The NASA THESAURUS - ALPHABETICAL UPDATE is an alphabetical listing of all subject terms (postable and nonpostable) that are currently approved for use in the NASA scientific and technical information system. Contained in the listing are the subject terms that were listed in the Preliminary Edition of the NASA THESAURUS and the additional subject terms that were approved during the period January 1, 1967-June 30, 1971. Complete Thesaurus structuring—including scope notes, category assignments, and cross-references—is provided for each term as appropriate.

Appendixes are not included in this publication.

## DEFINITIONS AND CONVENTIONS

The definitions and conventions employed in the development of this listing follow.

**Term Selection.** Subject terms have been chosen on the basis of their significance and use in aerospace literature and their effectiveness in incorporating productive retrieval concepts. Particular consideration has been given to frequency of use in earlier NASA indexing and search vocabularies, to relationships with other terms in the vocabulary, and to precise scientific and technical usage.

**Grammatical Form.** Subject terms are presented in the noun form. Expressions that were presented in earlier vocabularies as adjectives or verbs have been converted to the noun form.

**Singular vs. Plural.** The plural form has in general been used for subject terms. The singular form, however, is occasionally employed for specific processes, properties, conditions, and hardware.

**Punctuation.** Effort has been made to minimize the use of punctuation within subject terms. Where it is used, however, it becomes an integral part of the term.

**Term Length.** No more than 42 characters, including spaces, are used for any subject term.

**Term Ambiguity.** When subject terms have more than one meaning in aerospace usage, or where distinction between terms must be made, clarification is provided in one of two ways:

- a) Parenthetical qualifying expressions are added, becoming part of the subject term. For example:

SIZING (SHAPING)  
SIZING (SURFACE TREATMENT)

- b) Parenthetical scope notes are also added for explanation or definition; they do not become part of the subject term. For example:

SPECTROSCOPIC ANALYSIS  
(USE OF SPECTROSCOPIC TOOLS IN CHEMICAL ANALYSIS)

**Direct Entry.** Subject terms that consist of more than one word are listed for direct entry, i.e., in their natural word order rather than in the inverted form. For example:

ANALYTICAL CHEMISTRY, not CHEMISTRY, ANALYTICAL.

**Abbreviations and Acronyms.** Abbreviations and acronyms that are in common use in the aerospace community are employed in this listing. In most cases USE cross-references are made from the unabbreviated forms. For example:

ORBITING SOLAR OBSERVATORY  
USE OSO

**Synonyms.** When candidate subject terms are true synonyms, one is chosen to be the valid, or postable, term, and the other is provided with a USE cross-reference. For example:

COLUMBIUM  
USE NIOBIUM

**Array Terms.** Subject terms either with ambiguous meanings or too broad for effective indexing or retrieval of information have been designated array terms and carry the following scope note: (USE OF A MORE SPECIFIC TERM IS RECOMMENDED CONSULT THE TERMS LISTED BELOW). Relationships with other postable terms are shown by the Related Term (RT) reference only. For example:

SIZING  
(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT  
THE TERMS LISTED BELOW)  
RT BODY MEASUREMENT (BIOL)  
SIZE DETERMINATION  
SIZE SEPARATION  
SIZING (SHAPING)  
SIZING (SURFACE TREATMENT)  
SIZING MATERIALS

**Display terms.** The use of a # sign preceding a subject term in the alphabetical listing indicates that the subject term is one of the main entries in the Hierarchical Display. An example:

#BEARINGS  
ANTIFRICTION BEARINGS  
BT #BEARINGS

The term BEARINGS is a main entry in the Hierarchical Display. Please note that this publication does not contain the Hierarchical Display (Appendix A).

**Identifiers.** In this listing, identifiers, i.e., subject terms that include a numerical or alphabetical designation, or both, for a specific model or item, are treated as regular subject terms and are provided complete cross-referencing. For example:

F111 AIRCRAFT  
UF TFX AIRCRAFT  
BT ATTACK AIRCRAFT  
BT JET AIRCRAFT  
RT VARIABLE SWEEP WINGS

**Thesaurus Category Codes.** For purposes of efficient document announcement and distribution, the documents comprising the NASA scientific and technical information system are grouped in 34 broad subject categories. These categories have been divided into 217 subcategories to permit more convenient grouping of related terms in this listing. An explanation of the Codes will be found in Appendix B of the Preliminary Edition of the *NASA Thesaurus* (NASA SP-7030).

## CROSS-REFERENCE STRUCTURE

The relationships among terms are shown by cross-references and the notations used to represent them in this listing.

<i>Cross-References</i>	<i>Notation</i>
Broader term	BT
Narrower term	NT
Related term	RT
Use	USE
Used for	UF

These five cross-references have the following specific applications:

**Broader Term (BT).** This indicates that the terms that follow the BT notation represent more inclusive concepts that cover, among others, the term used. For example:

ALUMINUM ALLOYS  
BT ALLOYS

**Narrower Term (NT).** This indicates that the subject terms following the NT notation represent more specific concepts than the term used; it is a reciprocal of the broader term (BT) reference. For example:

ALLOYS  
NT ALUMINUM ALLOYS

**Related Term (RT).** This indicates that the two indexable terms are closely related conceptually but are not structured within the broader or narrower "tree," or hierarchy. The reciprocal of the RT reference "a" is the RT reference "b" and vice versa.

(A) RADAR EQUIPMENT  
RT RADIO EQUIPMENT  
(B) RADIO EQUIPMENT  
RT RADAR EQUIPMENT

**Use (USE).** This indicates that the term is not "postable," i.e., not a valid term, and that the following term or terms should be used instead. For example:

COLUMBIUM  
USE NIOBIUM

**Used For (UF).** This is a reciprocal of the USE cross-reference and identifies valid, or "postable," terms. For example:

NIOBIUM  
UF COLUMBIUM

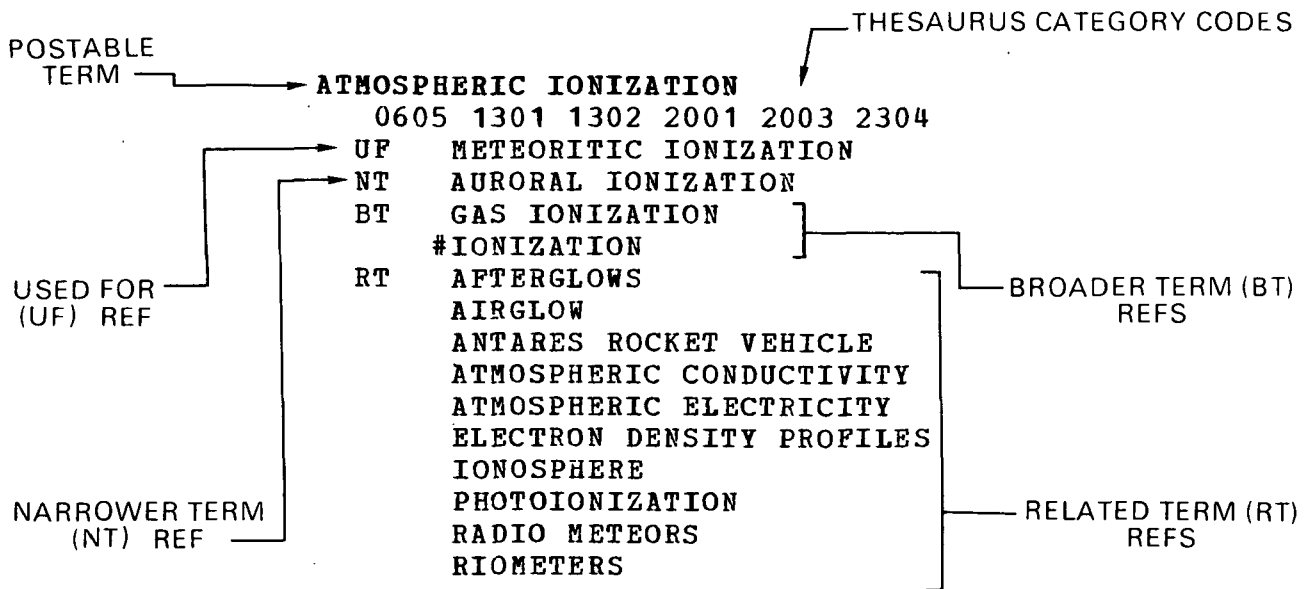
## ALPHABETIZATION

A modified computer sorting order has been used in the alphabetization of subject terms in this listing. The resulting arrangement closely resembles the word-by-word arrangement while simultaneously providing a standard numerical sequence for the numbered terms.

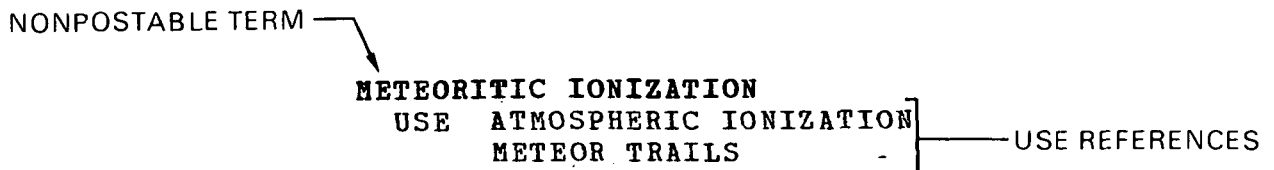
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## SAMPLE THESAURUS ENTRIES

### POSTABLE TERM



### NONPOSTABLE TERM



0605 1301 1302 2001 2003 2304

# A

A-1 AIRCRAFT  
0207 3401  
UF SKYRAIDER AIRCRAFT  
BT ATTACK AIRCRAFT  
DOUGLAS AIRCRAFT  
RT PISTON ENGINES

A-2 AIRCRAFT  
0207 3401  
UF SAVAGE AIRCRAFT  
BT ATTACK AIRCRAFT  
JET AIRCRAFT  
NORTH AMERICAN AIRCRAFT

A-3 AIRCRAFT  
0207  
UF A3D AIRCRAFT  
SKYWARRIOR AIRCRAFT  
BT ATTACK AIRCRAFT  
DOUGLAS AIRCRAFT  
JET AIRCRAFT

A-4 AIRCRAFT  
0207  
UF A4D AIRCRAFT  
SKYHAWK AIRCRAFT  
BT ATTACK AIRCRAFT  
DOUGLAS AIRCRAFT  
JET AIRCRAFT  
RT J-65 ENGINE

A-5 AIRCRAFT  
0207  
UF A3J AIRCRAFT  
VIGILANTE AIRCRAFT  
BT ATTACK AIRCRAFT  
JET AIRCRAFT  
NORTH AMERICAN AIRCRAFT  
SUPERSONIC AIRCRAFT

A-6 AIRCRAFT  
0207 3401  
UF A2F AIRCRAFT  
INTRODUCER AIRCRAFT  
BT ATTACK AIRCRAFT  
GRUMMAN AIRCRAFT  
JET AIRCRAFT

A-7 AIRCRAFT  
0207 3401  
UF CORSAIR AIRCRAFT  
BT ATTACK AIRCRAFT  
JET AIRCRAFT  
LING-TENCO-VOUGHT AIRCRAFT  
TURBOFAN AIRCRAFT

A-37 AIRCRAFT  
0207  
BT ATTACK AIRCRAFT  
CESSNA AIRCRAFT  
RT AIRCRAFT  
AIRCRAFT CONFIGURATIONS  
MILITARY AIRCRAFT  
T-37 AIRCRAFT

A-300 AIRCRAFT  
0204  
BT COMMERCIAL AIRCRAFT  
JET AIRCRAFT  
PASSENGER AIRCRAFT  
RT CIVIL AVIATION  
INTERNATIONAL COOPERATION

A-11 SATELLITE  
USE ECHO 1 SATELLITE

A-12 SATELLITE  
USE ECHO 2 SATELLITE

A STARS  
3001  
BT CELESTIAL BODIES  
HOT STARS  
STARS

AAP 1 MISSION  
3409  
RT APOLLO APPLICATIONS PROGRAM  
APOLLO PROJECT  
SKYLAB PROGRAM

AAP 2 MISSION  
3409  
RT APOLLO APPLICATIONS PROGRAM  
APOLLO PROJECT  
SKYLAB PROGRAM

AAP 3 MISSION  
3409  
RT APOLLO APPLICATIONS PROGRAM  
APOLLO PROJECT  
SKYLAB PROGRAM

AAP 4 MISSION  
3409

RT APOLLO APPLICATIONS PROGRAM  
APOLLO PROJECT  
SKYLAB PROGRAM

ABBREVIATIONS  
USE SYMBOLS

ABDOMEN  
0402 0404  
RT DIGESTIVE SYSTEM  
GASTROINTESTINAL SYSTEM  
INTESTINES  
PERITONEUM  
STOMACH  
VENTRAL SECTIONS  
VISCERA

ABEL FUNCTION  
1309 1902 2308  
BT ANALYSIS (MATHEMATICS)  
FUNCTIONS (MATHEMATICS)  
REAL VARIABLES  
RT SERIES (MATHEMATICS)

ABERRATION  
2306 2310 2311  
RT ABNORMALITIES  
ASPHERICITY  
BLURRING  
COMA  
CRYSTAL OPTICS  
DEVIATION  
DISTORTION  
SPATIAL FILTERING

ABILITIES  
0408 0506 3408  
UF PROPICIENCY  
SKILLS  
RT CONSISTENCY  
EFFORT  
HUMAN FACTORS ENGINEERING  
INCOMPATIBILITY  
TRANSFER OF TRAINING

ABIOTENESIS  
0403 0404 0411  
BT BIOLOGICAL EVOLUTION  
EVOLUTION (DEVELOPMENT)  
LIFE SCIENCES  
RT

ABLATION  
0406 3303 3305 3407  
RT ABLATIVE MATERIALS  
ABLATIVE NOSE CONES  
AERODYNAMIC HEAT TRANSFER  
AERODYNAMIC HEATING  
AEROTHERMOCHEMISTRY  
ATMOSPHERIC ENTRY  
BURNTHROUGH (FAILURE)  
CHARRING  
COOLING  
DECOMPOSITION  
EROSION  
GAS-METAL INTERACTIONS  
HEAT SHIELDING  
IMPINGEMENT  
JET IMPINGEMENT  
MASS TRANSFER  
MELTING  
PYROLYSIS  
REENTRY  
REENTRY EFFECTS  
REENTRY PHYSICS  
REENTRY SHIELDING  
SUBLIMATION  
TEMPERATURE EFFECTS  
THERMAL ABSORPTION  
VAPORIZING

ABLATIVE MATERIALS  
0102 1805 3110 3303 3305  
RT ABLATION  
ABLATIVE NOSE CONES  
COOLING  
HEAT SHIELDING  
HEAT SINKS  
MATERIALS  
NOSE CONES  
NOZZLE INSERTS  
PYROLYTIC MATERIALS  
REFRACTORY MATERIALS  
THERMAL CONTROL COATINGS  
THERMAL PROTECTION  
ABLATIVE NOSE CONES  
0102 1805 3110 3303 3305  
BT CONES  
POREBODIES  
NOSE CONES  
NOSES (POREBODIES)

RT ABLATION  
ABLATIVE MATERIALS  
HEAT SHIELDING  
REENTRY SHIELDING  
REENTRY VEHICLES  
ROCKET NOSE CONES  
SHIELDING  
ABLESTAR LAUNCH VEHICLE  
3103  
BT LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
ABNORMALITIES  
0408 1307 3408  
UF ANOMALIES  
NT GEOMAGNETIC HOLLOW  
MAGNETIC ANOMALIES  
NEUROSES  
PHOBIAS  
PSYCHOSES  
PSYCHOTIC DEPRESSION  
SCHIZOPHRENIA  
RT ABERRATION  
DEVIATION  
DISTORTION  
ECCENTRICITY  
IRREGULARITIES  
UNIQUENESS

ABORIGINES  
0404 3402  
RT ANTHROPOLOGY  
HUMAN BEINGS  
INHABITANTS

ABORT APPARATUS  
0203 3102 3103  
BT SAFETY DEVICES  
RT ABORTED MISSIONS  
AIRCRAFT SAFETY  
ARRESTING GEAR  
BARRIERS  
BRAKES (FOR ARRESTING MOTION)  
DRAG DEVICES  
EJECTION SEATS  
EQUIPMENT  
ESCAPE CAPSULES  
ESCAPE ROCKETS  
ABORT TRAJECTORIES  
1904 3006 3102 3103  
BT TRAJECTORIES  
RT ABORTED MISSIONS  
MATTERS (SYSTEMS)  
ABORTED MISSIONS  
3102 3103  
RT ABORT APPARATUS  
ABORT TRAJECTORIES  
DESTRUCTION  
ENGINE FAILURE  
ESCAPE CAPSULES  
ESCAPE ROCKETS  
FAILURE  
MALFUNCTIONS  
MISSIONS

ABRASION  
0405 1504 1801 1806  
RT ABRASIVES  
CHIPPING  
CLEANING  
CUTTING  
DRY FRICTION  
EROSION  
FILES (TOOLS)  
FRICTION  
GRINDING (MATERIAL REMOVAL)  
LESIONS  
METALLOGRAPHY  
POLISHING  
SCORING  
WEAR  
ABRASION RESISTANCE  
1503 1504  
BT MECHANICAL PROPERTIES  
RT HARDNESS  
RESISTANCE  
TOUGHNESS  
ABRASIVES  
1504 1801 1805 1806  
NT CARBORUNDUM (TRADEMARK)  
RT ABRASION  
ALUMINUM OXIDES  
CERAMICS  
DIAMONDS



# ABRISKOSOV THEORY

GRIT  
PUMICE  
QUARTZ  
SILICON CARBIDES  
ABRISKOSOV THEORY  
2302 2311 2603 2604  
RT CRYSTAL STRUCTURE  
ELECTROMAGNETIC FIELDS  
SUPERCONDUCTIVITY  
SUPERCONDUCTORS  
THEORIES  
VORTICES  
ABSCISSAS  
USE #COORDINATES  
ABSOLUTE TEMPERATURE SCALES  
USE TEMPERATURE SCALES  
ABSORBENTS  
0602 0603 1805  
UP MOLECULAR SIEVES  
BT SORBENTS  
RT ABSORBERS  
ABSORBERS (EQUIPMENT)  
ABSORBERS (MATERIALS)  
ABSORBENTS  
AIR CONDITIONING EQUIPMENT  
DESICCANTS  
LOW DENSITY MATERIALS  
MATERIAL ABSORPTION  
MATERIALS  
ABSORBERS  
0603 1409 1504 2202 2405 2901 3203 3303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ABSORBENTS  
ABSORBERS (EQUIPMENT)  
ABSORBERS (MATERIALS)  
#ATTENUATORS  
CLEANERS  
OSCILLATION DAMPERS  
SHOCK ABSORBERS  
VIBRATION ISOLATORS  
ABSORBERS (EQUIPMENT)  
0602 1504  
(EXCLUDES EQUIPMENT FOR ABSORBING  
ENERGY)  
RT ABSORBENTS  
ABSORBERS  
ABSORBERS (MATERIALS)  
AIR CONDITIONING EQUIPMENT  
CLEANERS  
COLUMNS (PROCESS ENGINEERING)  
CONDENSERS (LIQUIFIERS)  
COOLING SYSTEMS  
DEGASSING  
DRYING APPARATUS  
EQUIPMENT  
MATERIAL ABSORPTION  
REFRIGERATING MACHINERY  
SHOCK ABSORBERS  
ABSORBERS (MATERIALS)  
0602 1504 1805  
(EXCLUDES ABSORBENTS--LIMITED TO  
MATERIALS FOR ABSORBING RADIATION  
RATHER THAN OTHER MATERIALS)  
NT NEUTRON ABSORBERS  
RADAR ABSORBERS  
SOLAR ENERGY ABSORBERS  
RT ABSORBENTS  
ABSORBERS  
ABSORBERS (EQUIPMENT)  
#ATTENUATORS  
CLEANERS  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC WAVE FILTERS  
#ENERGY ABSORPTION  
FILTERS  
HEAT SINKS  
INSULATION  
JACKETS  
LOW DENSITY MATERIALS  
MATERIALS  
RADIATION SHIELDING  
REFRIGERANTS  
#SHIELDING  
SINKS  
STOPPING POWER  
SUPPRESSORS  
ABSORPTANCE  
2310  
RT ALBEDO  
CAPTURE EFFECT

COSMIC RAY ALBEDO  
DENSITY (MASS/VOLUME)  
EARTH ALBEDO  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
LIGHT TRANSMISSION  
OPACITY  
REFLECTANCE  
#SURFACE PROPERTIES  
#TRANSMISSION  
TRANSMISSIVITY  
TRANSMITTANCE  
TRANSPARECE  
TURBIDITY  
ABSORPTION  
3407 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ADSORPTION  
ATOMIC COLLISIONS  
#ATTENUATION  
BENEFICIATION  
CAPTURE EFFECT  
COLLISION PARAMETERS  
COSMIC RAY ALBEDO  
DAMPING  
DESORPTION  
#DIFFUSION  
DRYING  
ELECTROMAGNETIC ABSORPTION  
#ENERGY ABSORPTION  
INFRARED SPECTRA  
MATERIAL ABSORPTION  
MATERIALS RECOVERY  
PERMEATING  
PLANETARY ATMOSPHERES  
#RADIATION ABSORPTION  
SELF ABSORPTION  
#SORPTION  
THERMAL ABSORPTION  
X RAY ABSORPTION  
ABSORPTION BANDS  
USE ABSORPTION SPECTRA  
ABSORPTION COEFFICIENT  
USE ABSORPTIVITY  
ABSORPTION CROSS SECTIONS  
0301 0705 1411 2402 2405  
UP CAPTURE CROSS SECTIONS  
RT CROSS SECTIONS  
IONIZATION CROSS SECTIONS  
NEUTRON CROSS SECTIONS  
#RADIATION ABSORPTION  
SCATTERING CROSS SECTIONS  
STOPPING POWER  
ABSORPTION SPECTRA  
2401 2404 2405  
UP ABSORPTION BANDS  
SPECTRAL ABSORPTION  
NT FRAUNHOFER LINES  
HERZBERG BANDS  
TELLURIC LINES  
RT RADIATION SPECTRA  
#SPECTRA  
SPECTRAL BANDS  
BALMER SERIES  
CONTINUOUS RADIATION  
D LINES  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC SPECTRA  
ELECTRONIC SPECTRA  
EMISSION SPECTRA  
ENERGY SPECTRA  
FRAUNHOFER LINE DISCRIMINATORS  
H ALPHA LINE  
H BETA LINE  
H GAMMA LINE  
H LINES  
#IONIZING RADIATION  
K LINES  
LINE SPECTRA  
MICROWAVE SPECTRA  
MOLECULAR SPECTRA  
MOLECULAR SPECTROSCOPY  
PARAMAGNETIC RESONANCE  
PASCHEN SERIES  
PHOTOLUMINESCENT BANDS  
RAMAN SPECTRA  
RYDBERG SERIES  
SCHUMANN-RUNGE BANDS  
SELF ABSORPTION  
SOLAR SPECTRA

# NASA THESAURUS (ALPHABETICAL LISTING)

SOLAR SPECTROMETERS  
SPECTRUM ANALYSIS  
STELLAR SPECTRA  
ULTRAVIOLET SPECTRA  
ABSORPTION SPECTROSCOPY  
0601 1411  
BT #SPECTROSCOPY  
RT FRAUNHOFER LINES  
INFRARED SPECTROSCOPY  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
ULTRAVIOLET SPECTROSCOPY  
ABSORPTIVE INDEX  
USE ABSORPTIVITY  
ABSORPTIVITY  
1411 2306 2310 2401 2402  
UP ABSORPTION COEFFICIENT  
ABSORPTIVE INDEX  
RT BEER LAW  
BOUGUER LAW  
DENSITY (MASS/VOLUME)  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
KIRCHHOFF LAW OF RADIATION  
OPACITY  
SCATTERING COEFFICIENTS  
SELF ABSORPTION  
TRANSMISSIVITY  
TRANSPARECE  
ABSTRACTS  
3405  
BT #DOCUMENTS  
SUMMARIES  
RT ANNOTATIONS  
BIBLIOGRAPHIES  
INDEXES (DOCUMENTATION)  
INFORMATION RETRIEVAL  
TECHNICAL WRITING  
ABUNDANCE  
1306 3408  
UP ELEMENT ABUNDANCE  
RT AVAILABILITY  
RESERVES  
#RESOURCES  
AC (CURRENT)  
USE ALTERNATING CURRENT  
AC-1 AIRCRAFT  
USE DHC 4 AIRCRAFT  
AC GENERATORS  
0302 0904  
UP ALTERNATING CURRENT GENERATORS  
ALTERNATORS (GENERATORS)  
TURBOALTERNATORS  
NT STATIC ALTERNATORS  
BT #ELECTRIC GENERATORS  
ROTATING GENERATORS  
RT SUNFLOWER 1  
TURBOGENERATORS  
ACCELERATED LIFE TESTS  
1505 3404  
RT ACCEPTABILITY  
EVALUATION  
FATIGUE LIFE  
LIFE (DURABILITY)  
LIFE TESTS (DURABILITY)  
PERFORMANCE TESTS  
QUALITY CONTROL  
SERVICE LIFE  
TESTS  
ACCELERATING AGENTS  
0602  
RT ACCELERATORS  
ADMIXTURES  
AGENTS  
CATALYSTS  
RETARDANTS  
ACCELERATION  
0101 0201 1202 1901 2103 2311 3006  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ACCELERATION (PHYSICS)  
CATALYSIS  
GRAVIMETRY  
HUMAN TOLERANCES  
TRANSVERSE ACCELERATION  
ACCELERATION (PHYSICS)  
2308 2311 2405  
UP BOOST  
G FORCE  
NT ANGULAR ACCELERATION  
DECELERATION

# NASA THESAURUS (ALPHABETICAL LISTING)

HIGH ACCELERATION  
IMPACT ACCELERATION  
PARTICLE ACCELERATION  
PHYSIOLOGICAL ACCELERATION  
PLASMA ACCELERATION  
SPIN REDUCTION  
TRANSVERSE ACCELERATION  
BT #RATES (PER TIME)  
RT ACCELERATION  
ACCELERATION STRESSES (PHYSIOLOGY)  
ACCELEROMETERS  
BODY KINEMATICS  
EXPULSION  
FLIGHT STRESS (BIOLOGY)  
FORCE  
KINEMATICS  
KINETICS  
MECHANICAL SHOCK  
MOTION  
#STRESS (PHYSIOLOGY)  
#THRUST  
THRUST-WEIGHT RATIO  
VELOCITY  
ACCELERATION PROTECTION  
0401 0508 1504 3201  
BT #PROTECTION  
RT ACCELERATION TOLERANCE  
EMBEDDING  
SUPINE POSITION  
ACCELERATION STRESSES (PHYSIOLOGY)  
0401 0408 0502 1309  
NT CENTRIFUGING STRESS  
BT #STRESS (PHYSIOLOGY)  
RT ACCELERATION (PHYSICS)  
ACCELERATION TOLERANCE  
ARTIFICIAL GRAVITY  
GRAVITATIONAL EFFECTS  
HIGH ACCELERATION  
MOTION SICKNESS  
TRANSVERSE ACCELERATION  
ACCELERATION TOLERANCE  
0408 1309  
(LIMITED TO ABILITY OF ORGANISMS TO  
WITHSTAND ACCELERATION--FOR EFFECTS ON  
EQUIPMENT, USE SHOCK RESISTANCE AND  
MECHANICAL SHOCK)  
BT TOLERANCES (PHYSIOLOGY)  
RT ACCELERATION PROTECTION  
ACCELERATION STRESSES (PHYSIOLOGY)  
BLACKOUT (PHYSIOLOGY)  
BLACKOUT PREVENTION  
CENTRIFUGING STRESS  
GRAVITATIONAL EFFECTS  
HIGH ACCELERATION  
HUMAN CENTRIFUGES  
HUMAN TOLERANCE  
HUMAN TOLERANCES  
RESISTANCE  
ACCELERATORS  
2401 2403 2404 2405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT ACCELERATING AGENTS  
CICLOPS PLASMA ACCELERATOR  
ELECTRON ACCELERATORS  
GEOSYNCHROTRONS  
HALL ACCELERATORS  
HYPERVELOCITY GUNS  
LINEAR ACCELERATORS  
#PARTICLE ACCELERATORS  
PLASMA ACCELERATORS  
STORAGE RINGS (PARTICLE  
ACCELERATORS)  
SYNCHROPHASOTRONS  
VAN DE GRAAFF ACCELERATORS  
ACCELEROMETERS  
1309 1402 1406 1410  
UF INERTIAL ACCELEROMETERS  
NT STRAIN GAGE ACCELEROMETERS  
BT #MEASURING INSTRUMENTS  
RT ACCELERATION (PHYSICS)  
GRAVINETERS  
GRAVINETRY  
GYROSCOPIC PENDULUMS  
#MECHANICAL MEASUREMENT  
PENDULUMS  
SEISMOGRAPHS  
SHOCK MEASURING INSTRUMENTS  
SPEED INDICATORS  
THRUST MEASUREMENT  
VELOCITY MEASUREMENT

VIBRATION METERS  
ACCEPTABILITY  
1505  
UF ACCEPTANCE  
RT ACCELERATED LIFE TESTS  
COMPATIBILITY  
EVALUATION  
EXAMINATION  
FIGURE OF MERIT  
INSPECTION  
PERFORMANCE TESTS  
PROVING  
QUALITY CONTROL  
REJECTION  
RELIABILITY  
RISK  
SAMPLES  
STANDARDS  
TESTS  
TOLERANCES (MECHANICS)  
VALIDITY  
ACCEPTANCE  
USE ACCEPTABILITY  
ACCEPTOR MATERIALS  
0903 0905 0906 1002 2602  
BT SEMICONDUCTORS (MATERIALS)  
RT ELECTRONS  
HOLES (ELECTRON DEFICIENCIES)  
ACCESS TIME  
0801 0802  
BT #TIME  
RT #DATA PROCESSING  
#RATES (PER TIME)  
TIME CONSTANT  
TIME RESPONSE  
ACCESSORIES  
0303 0904 1504 3203  
UF ATTACHMENTS  
RT COMPONENTS  
EXTENSIONS  
FITTINGS  
INSERTS  
SUBASSEMBLIES  
ACCIDENT INVESTIGATION  
0502 0506 0508  
NT AIRCRAFT ACCIDENT INVESTIGATION  
BT #INVESTIGATION  
RT ACCIDENT PREVENTION  
ACCIDENTS  
AUTOMOBILE ACCIDENTS  
WRECKAGE  
ACCIDENT PREVENTION  
0502 0506 0508  
UF PRECAUTIONS  
BT PREVENTION  
RT ACCIDENT INVESTIGATION  
ACCIDENT PRONESS  
ACCIDENTS  
AUTOMOBILE ACCIDENTS  
FIRE PREVENTION  
#HAZARDS  
#PROTECTION  
SAFETY  
SAFETY DEVICES  
SAFETY MANAGEMENT  
WARNING  
#WARNING SYSTEMS  
ACCIDENT PRONESS  
0408 0502 0506  
RT ACCIDENT PREVENTION  
SAFETY DEVICES  
SAFETY FACTORS  
ACCIDENTS  
0502 0506 0508  
NT AIRCRAFT ACCIDENTS  
AUTOMOBILE ACCIDENTS  
ACCIDENT INVESTIGATION  
ACCIDENT PREVENTION  
CRASH INJURIES  
#CRASHES  
DESTRUCTION  
DISASTERS  
#EXPLOSIONS  
FIRES  
FIRST AID  
#HAZARDS  
#INDUSTRIAL SAFETY  
#INJURIES  
SAFETY  
SAFETY DEVICES  
TRAFFIC

## ACCURACY

ACCLIMATIZATION  
0404 0408  
UF DEACCLIMATIZATION  
HEAT ACCLIMATIZATION  
NT ALTITUDE ACCLIMATIZATION  
COLD ACCLIMATIZATION  
BT #ADAPTATION  
RT HOMEOSTASIS  
LIQUID BREATHING  
#STRESS (PHYSIOLOGY)  
TOLERANCES (PHYSIOLOGY)  
ACCOMMODATION  
0404 2310  
NT VISUAL ACCOMMODATION  
ACCOMMODATION COEFFICIENT  
2404 3304  
UF THERMAL ACCOMMODATION COEFFICIENTS  
BT #COEFFICIENTS  
RT HEAT TRANSFER COEFFICIENTS  
ACCORDION PROJECT  
2103 2104  
RT AIR NAVIGATION  
ATLANTIC OCEAN  
CANADA  
#COMMERCIAL AIRCRAFT  
FLIGHT PATHS  
#NAVIGATION AIDS  
ACCRETION  
USE #DEPOSITION  
ACCUMLATIONS  
0602 3407  
RT ACQUISITION  
AGGLOMERATION  
ASSEMBLIES  
COAGULATION  
COLLECTION  
CONCENTRATING  
#DEPOSITION  
FILLING  
#GROWTH  
INCREASING  
INPUT  
NUCLEATION  
SETTLING  
STOCKPILING  
#ACCUMLATORS  
0301 0801 0802 2201 2902  
UF COLLECTORS  
NT ACCUMULATORS (COMPUTERS)  
DUST COLLECTORS  
SOLAR COLLECTORS  
SOLAR REFLECTORS  
RT ANODES  
CONCENTRATORS  
ENTRAPMENT  
FUEL SYSTEMS  
PRESSURE VESSELS  
PRESSURIZING  
ACCUMLATORS (COMPUTERS)  
0801 0802 0903  
BT #ACCUMLATORS  
#COMPUTER STORAGE DEVICES  
REGISTERS (COMPUTERS)  
RT ADDING CIRCUITS  
COUNTERS  
ACCURACY  
1902 3408  
UF ERROR BAND  
FIDELITY  
RT ANGULAR RESOLUTION  
CALIBRATING  
CONSISTENCY  
CORRECTION  
DEFINITION  
DRIFT (INSTRUMENTATION)  
#DYNAMIC CHARACTERISTICS  
ERRORS  
HIGH RESOLUTION  
HYSTERESIS  
LINEARITY  
MEASUREMENT  
MISS DISTANCE  
PRECISION  
QUALITY  
RANGE ERRORS  
RELIABILITY  
#RESOLUTION  
SEQUENTIAL CONTROL  
STANDARDS  
SURVEYS  
TESTS  
TOLERANCES (MECHANICS)

## ACETALDEHYDE

VALIDITY  
VIRTUAL PROPERTIES  
ACETALDEHYDE  
1808  
BT ALDEHYDES  
#ALIPHATIC COMPOUNDS  
ACETALS  
1808  
BT #ALIPHATIC COMPOUNDS  
ETHERS  
ACETANILIDE  
0403  
UF PHENACETIN  
BT AMIDES  
#NITROGEN COMPOUNDS  
ACETATES  
0603 1804 1808 1811  
NT COBALT ACETATES  
LEAD ACETATES  
NITROSYL TRIFLUOROACETATE  
SODIUM CHLORODIFLUOROACETATES  
RT ACETIC ACID  
ACETYSALICYLIC ACID  
#ALIPHATIC COMPOUNDS  
#ESTERS  
ETHYLENEDIAMINETETRAACETIC ACIDS  
ACETATION  
USE ACETYLATION  
ACETAZOLAMIDE  
0405 0603 1808  
BT AMIDES  
AZOLES  
#HETEROCYCLIC COMPOUNDS  
RT CARBONIC ANHYDRASE  
DIURETICS  
ACETIC ACID  
0403 1808  
NT ETHYLENEDIAMINETETRAACETIC ACIDS  
IODOACETIC ACID  
VERSENE  
BT #ACIDS  
#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
#ORGANIC COMPOUNDS  
RT ACETATES  
TRIACETIN  
ACETONE  
1808  
BT #ALIPHATIC COMPOUNDS  
KETONES  
RT ACETYLACETONE  
ACETYL COMPOUNDS  
1808  
BT #ALIPHATIC COMPOUNDS  
KETONES  
RT ACETONE  
PENTANONE  
ACETYLATION  
0403 0602  
UF ACETATION  
BT ACYLATION  
#CHEMICAL REACTIONS  
ACETYLENE  
1808  
BT #ALIPHATIC COMPOUNDS  
ALKYNES  
#HYDROCARBONS  
RT HYDROCARBON FUELS  
OXYACETYLENE  
ACETYSALICYLIC ACID  
0403 1808  
UF ASA  
BT #ACIDS  
CARBOXYLIC ACIDS  
RT ACETATES  
SALICYLATES  
ACHIEVEMENT  
0408 0502 3405  
RT COMPLETENESS  
#LEARNING  
ACHONDRISES  
3001 3005  
NT BONDOR METEORITE  
DYALPOR METEORITE  
KAPOTA ACHONDRISE  
NORTON COUNTY ACHONDRISE  
BT #CELESTIAL BODIES  
METEORITES  
STONY METEORITES

BT CHONDRITES  
IRON METEORITES  
ACID BASE EQUILIBRIUM  
0601 0602 0603  
BT CHEMICAL EQUILIBRIUM  
RT EQUILIBRIUM  
HOMEOSTASIS  
PH  
PH FACTOR  
STABILIZATION  
THERMODYNAMIC EQUILIBRIUM  
ACIDITY  
0601 0603  
BT #CHEMICAL PROPERTIES  
RT HYDROGEN IONS  
ION CONCENTRATION  
PH  
TITRATION  
ACIDOSIS  
0404 0408  
BT HYPERVENTILATION  
#ACIDS  
1703 1807  
NT ACETIC ACID  
ACETYSALICYLIC ACID  
ACRYLIC ACID  
AMINO ACIDS  
AMOBARBITAL  
ASCORBIC ACID  
ASPARTIC ACID  
BENZILIC ACID  
BENZOIC ACID  
BORIC ACIDS  
BUTYRIC ACID  
CARBONIC ACID  
CARBOXYLIC ACIDS  
CHROMIC ACID  
CITRIC ACID  
CYANURIC ACID  
CYSTEINE  
CYTIDYLIC ACID  
DEOXYRIBONUCLEIC ACID  
DICARBOXYLIC ACIDS  
ETHYLENEDIAMINETETRAACETIC ACIDS  
FATTY ACIDS  
POLIC ACID  
FORMHYDROXAMIC ACID  
FORMIC ACID  
GLUTAMIC ACID  
GLUTAMINE  
GLUTATHIONE  
GLYCINE  
HEXOGENES (TRADEMARK)  
HIPURIC ACID  
HISTIDINE  
HYDRAZOIC ACID  
HYDROBROMIC ACID  
HYDROCHLORIC ACID  
HYDROFLUORIC ACID  
HYPERTENSIN  
IODOACETIC ACID  
LACTIC ACID  
LEUCINE  
LIPOIC ACID  
LYSINE  
MELANOIDIN  
METHIONINE  
NICOTINIC ACID  
NITRIC ACID  
NUCLEIC ACIDS  
OLEIC ACID  
OXALIC ACID  
OXIDASE  
PALMITIC ACID  
PAPAIN  
PERCHLORIC ACID  
PHENYLALANINE  
PHOSPHORIC ACID  
PROPIONIC ACID  
PROTOPROTEINS  
PYRIDINE NUCLEOTIDES  
PYRUVATES  
RIBONUCLEIC ACIDS  
SEBACIC ACID  
SULFURIC ACID  
TEREPHTHALATE  
THYMIDINE  
THYMINE  
THYROXINE  
TRYPTOPHAN  
URIC ACID  
URIDYLIC ACID

## NASA THESAURUS (ALPHABETICAL LISTING)

VALERIC ACID  
VERSENE  
XANTHIC ACIDS  
RT ADRENOCORTICOTROPIN (ACTH)  
ANHYDRIDES  
#HYDROGEN COMPOUNDS  
#INORGANIC COMPOUNDS  
#ORGANIC COMPOUNDS  
OXYGEN COMPOUNDS  
ACOUSTIC ATTENUATION  
0710 2301  
NT SHOCK WAVE ATTENUATION  
BT #ATTENUATION  
WAVE ATTENUATION  
RT ACOUSTIC DUCTS  
ACOUSTIC VELOCITY  
ACOUSTICS  
ANECHOIC CHAMBERS  
ATMOSPHERIC ATTENUATION  
BIOACOUSTICS  
NOISE REDUCTION  
SOUND AMPLIFICATION  
WAVE PROPAGATION  
ZERO SOUND  
ACOUSTIC COMBUSTION  
USE COMBUSTION STABILITY  
ACOUSTIC DELAY LINES  
0801 0902 0906  
UF SONIC WAVEGUIDES  
BT DELAY LINES  
RT #COMPUTER STORAGE DEVICES  
DELAY CIRCUITS  
#TRANSMISSION LINES  
ACOUSTIC DUCTS  
0710 2301  
BT DUCTS  
RT ACOUSTIC ATTENUATION  
ACOUSTIC VELOCITY  
NOISE REDUCTION  
ACOUSTIC EXCITATION  
0710 2301  
BT #EXCITATION  
WAVE EXCITATION  
RT #ACOUSTIC PROPERTIES  
ACOUSTICS  
SOUND AMPLIFICATION  
ACOUSTIC FATIGUE  
0408 2301  
BT HEARING  
RT ACOUSTICS  
ACOUSTIC GENERATORS  
USE SOUND GENERATORS  
ACOUSTIC IMPEDANCE  
0710 2301  
BT #ACOUSTIC PROPERTIES  
#IMPEDANCE  
RT ACOUSTIC MEASUREMENTS  
ACOUSTIC VELOCITY  
ACOUSTICS  
ACOUSTIC INSTABILITY  
2301  
UF HUMBLE INSTABILITY  
BT #ACOUSTIC PROPERTIES  
#STABILITY  
RT SIGNAL FADING  
ACOUSTIC MEASUREMENTS  
2301  
(MEASUREMENT OF PROPERTIES, QUANTITIES  
OR CONDITIONS ASSOCIATED WITH ELASTIC  
WAVES)  
UF NOISE MEASUREMENT  
SOUND MEASUREMENT  
RT ACOUSTIC IMPEDANCE  
#ACOUSTIC PROPERTIES  
ACOUSTIC VELOCITY  
ANECHOIC CHAMBERS  
AUDIO FREQUENCIES  
AUDIOHETRY  
FREQUENCY MEASUREMENT  
MEASUREMENT  
#MECHANICAL MEASUREMENT  
NOISE METERS  
PRESSURE MEASUREMENTS  
SEISMOGRAPHS  
SOUND PRESSURE  
SOUND WAVES  
ULTRASONIC TESTS  
ACOUSTIC NOZZLES  
2301  
RT NOZZLES  
SONIC NOZZLES  
SOUND GENERATORS

# NASA THESAURUS (ALPHABETICAL LISTING)

**ACOUSTIC PROPAGATION**  
 1202 1203 2301  
 RT **ACOUSTICS**  
   #ELASTIC WAVES  
   PROPAGATION  
   SOUND PROPAGATION  
**#ACOUSTIC PROPERTIES**  
 2303  
 NT **ACOUSTIC IMPEDANCE**  
   ACOUSTIC INSTABILITY  
   ACOUSTIC SCATTERING  
   ACOUSTIC VELOCITY  
   REVERBERATION  
   SOUND INTENSITY  
   ZERO SOUND  
 RT **ACOUSTIC EXCITATION**  
   ACOUSTIC MEASUREMENTS  
   FIELD STRENGTH  
   LAMB WAVES  
   #MECHANICAL PROPERTIES  
   PHYSICAL PROPERTIES  
   PROPERTIES  
   RESISTANCE  
   SOUND WAVES  
   WAVE DISPERSION  
**ACOUSTIC RADIATION**  
 USE SOUND WAVES  
**ACOUSTIC SCATTERING**  
 0710 2301  
 NT **REVERBERATION**  
 BT **#ACOUSTIC PROPERTIES**  
   #SCATTERING  
   WAVE SCATTERING  
 RT **ACOUSTICS**  
   DEEP SCATTERING LAYERS  
   UNDERWATER ACOUSTICS  
**ACOUSTIC SIMULATION**  
 0710 1107 2301  
 BT **ENVIRONMENT SIMULATION**  
   #SIMULATION  
 RT **#ELASTIC WAVES**  
   FLIGHT SIMULATION  
**ACOUSTIC STABILITY**  
 USE FREQUENCY STABILITY  
**ACOUSTIC STREAMING**  
 0710 1202 2301  
 RT **#FLUID FLOW**  
   FLUID SWITCHING ELEMENTS  
   FRAGMENTATION  
   SOUND WAVES  
   STREAMLINING  
**ACOUSTIC VELOCITY**  
 0710 2301  
 UP **SONIC SPEED**  
   SOUND BARRIER  
   SOUND VELOCITY  
 BT **#ACOUSTIC PROPERTIES**  
   #RATES (PER TIME)  
   VELOCITY  
 RT **ACOUSTIC ATTENUATION**  
   ACOUSTIC DUCTS  
   ACOUSTIC IMPEDANCE  
   ACOUSTIC MEASUREMENTS  
   BARRIERS  
   EXHAUST VELOCITY  
   GUTENBERG ZONE  
   MACH CONES  
   MACH NUMBER  
   SONIC BOOMS  
   SOUND PRESSURE  
   SUBSONIC SPEED  
   SUPERSONIC SPEEDS  
   TRANSONIC SPEED  
**ACOUSTIC VIBRATIONS**  
 USE SOUND WAVES  
**ACOUSTICS**  
 1202 2301 2312  
 UP **SOUND**  
 NT **BIOACOUSTICS**  
   MAGNETOACOUSTICS  
   MICROSONICS  
   PSYCHOACOUSTICS  
   UNDERWATER ACOUSTICS  
 RT **ACOUSTIC ATTENUATION**  
   ACOUSTIC EXCITATION  
   ACOUSTIC FATIGUE  
   ACOUSTIC IMPEDANCE  
   ACOUSTIC PROPAGATION  
   ACOUSTIC SCATTERING  
   ANECHOIC CHAMBERS  
   ARCHITECTURE  
   AUDITORY PERCEPTION

**AUDITORY STIMULI**  
**AUDITORY TASKS**  
**COMFORT**  
**EARPHONES**  
**#ECHOES**  
**#ELASTIC WAVES**  
**HARMONIC EXCITATION**  
**HARMONIC GENERATIONS**  
**HARMONIC OSCILLATION**  
**HARMONICS**  
**HUM**  
**INFRASONIC FREQUENCIES**  
**LAMB WAVES**  
**LAMB WAVE EQUATIONS**  
**LOUDNESS**  
**NOISE (SOUND)**  
**NOISE PROPAGATION**  
**NOISE REDUCTION**  
**OCTAVES**  
**OPACITY**  
**PHONETICS**  
**POWER SPECTRA**  
**SIMPLE HARMONIC MOTION**  
**SONIC ANEMOMETERS**  
**SOUND AMPLIFICATION**  
**SOUND FIELDS**  
**SOUND PROPAGATION**  
**SOUND TRANSMISSION**  
**SOUND WAVES**  
**#SPEECH**  
**ULTRASONICS**  
**VERBAL COMMUNICATION**  
**#VIBRATION**  
**VIBRATION DAMPING**  
**VOICE COMMUNICATION**  
**ZERO SOUND**  
**ACQUISITION**  
 0708 0709 3407  
 NT **DATA ACQUISITION**  
   TARGET ACQUISITION  
 RT **ACCUMULATIONS**  
   COLLECTION  
   #DETECTION  
   DOCUMENTATION  
   RECEIVING  
   #RECOGNITION  
**ACRIFLAVINE**  
 0403 0405 1808  
 BT **#HETEROCYCLIC COMPOUNDS**  
 RT **ANTISEPTICS**  
   DYES  
**ACROBATICS**  
 0203 0502 2102  
 RT **#FLIGHT CONTROL**  
   #MANEUVERS  
**ACROLEINS**  
 0403 1808  
 BT **ALDEHYDES**  
   #ALIPHATIC COMPOUNDS  
   RT **TOXICITY AND SAFETY HAZARD**  
**ACRYLATES**  
 1808  
 BT **#ALIPHATIC COMPOUNDS**  
   #ESTERS  
   RT **#RESINS**  
**ACRYLIC ACID**  
 1808  
 BT **#ACIDS**  
   #ALIPHATIC COMPOUNDS  
   CARBOXYLIC ACIDS  
**ACRYLIC RESINS**  
 1810  
 UP **METHACRYLATE RESINS**  
   POLYACRYLATES  
 BT **ADDITION RESINS**  
   #PLASTICS  
   #RESINS  
   SYNTHETIC RESINS  
 RT **LATEX**  
   THERMOPLASTIC RESINS  
**ACRYLONITRILES**  
 1808 1810  
 UP **VINYL CYANIDE**  
 BT **#ALIPHATIC COMPOUNDS**  
   NITRILES  
 RT **#PLASTICS**  
**ACTH**  
 USE ADRENOCORTICOTROPIN (ACTH)  
**ACTINIDE SERIES**  
 0603 1703 2406  
 NT **ACTINIUM**  
   AMERICIUM

## ACTIVATION

**AMERICIUM ISOTOPES**  
**AMERICIUM 241**  
**BERKELIUM**  
**CALIFORNIUM**  
**CALIFORNIUM ISOTOPES**  
**CURIUM**  
**CURIUM ISOTOPES**  
**CURIUM 242**  
**CURIUM 244**  
**EINSTEINIUM**  
**FERMIUM**  
**LAWRENCIUM**  
**MENDELEVIUM**  
**NEPTUNIUM**  
**NEPTUNIUM ISOTOPES**  
**NOBELIUM**  
**PLUTONIUM**  
**PLUTONIUM ISOTOPES**  
**PLUTONIUM 238**  
**PLUTONIUM 239**  
**PLUTONIUM 240**  
**PLUTONIUM 241**  
**RADIUM**  
**RADIUM ISOTOPES**  
**RADIUM 226**  
**THORIUM**  
**THORIUM ISOTOPES**  
**TRANSURANIUM ELEMENTS**  
**URANIUM**  
**URANIUM ISOTOPES**  
**URANIUM 232**  
**URANIUM 233**  
**URANIUM 234**  
**URANIUM 235**  
**URANIUM 238**  
 BT **#CHEMICAL ELEMENTS**  
   #METALS  
 RT **RADIOACTIVE ISOTOPES**  
   RADIOACTIVE MATERIALS  
   TRANSITION METALS  
**#ACTINIDE SERIES COMPOUNDS**  
 0603 1804  
 NT **NEPTUNIUM COMPOUNDS**  
   PLUTONIUM COMPOUNDS  
   PLUTONIUM FLUORIDES  
   PLUTONIUM OXIDES  
   THORIUM COMPOUNDS  
   THORIUM FLUORIDES  
   THORIUM OXIDES  
   URANIUM CARBIDES  
   URANIUM COMPOUNDS  
   URANIUM FLUORIDES  
   URANIUM OXIDES  
 RT **GROUP 3B COMPOUNDS**  
**ACTINIUM**  
 0603 1703 2406  
 BT **ACTINIDE SERIES**  
   #CHEMICAL ELEMENTS  
   #METALS  
**ACTINOGRAPHS**  
 USE ACTINOMETERS  
**ACTINOMETERS**  
 0411 0605 1408 2902  
 UP **ACTINOGRAPHS**  
   EMISSOGRAPHS  
 NT **DICKE RADIOMETERS**  
   INFRARED DETECTORS  
   INFRARED SCANNERS  
   MICROWAVE RADIOMETERS  
   PYRANOMETERS  
   RADIOMETERS  
   SOLAR SPECTROMETERS  
   SPECTROBRADIOMETERS  
 BT **#MEASURING INSTRUMENTS**  
   RADIATION MEASURING INSTRUMENTS  
 RT **DOSIMETERS**  
   FABRY-PEROT SPECTROMETERS  
   FIELD INTENSITY METERS  
   SPECTROMETERS  
**ACTINOMYCETES**  
 0404 0407  
 BT **BACTERIA**  
   FUNGI  
   #MICROORGANISMS  
   #PLANTS (BOTANY)  
**ACTINOMYCIN**  
 0404 0407  
 BT **ANTIBIOTICS**  
   #DRUGS  
   #STEROIDS  
**ACTIVATION**  
 0601 1504 2202 2406 3407

# ACTIVATION (BIOLOGY)

RT ACTIVATION ANALYSIS  
ACTUATION  
CATALYSIS  
DEACTIVATION  
ELECTROMAGNETIC ABSORPTION  
#EXCITATION  
#FLUTATION  
INITIATION  
IONIZATION POTENTIALS  
#IRRADIATION  
SENSITIZING  
STARTING  
STIMULATION  
ACTIVATION (BIOLOGY)  
0403 0404 0408  
RT ACTIVATION ENERGY  
CELLS  
ENZYMES  
STIMULATION  
ACTIVATION ANALYSIS  
2403 2404 2405  
NT NEUTRON ACTIVATION ANALYSIS  
RT ACTIVATION  
ANALYZING  
ACTIVATION ENERGY  
0602 0603 2401 2405  
RT ACTIVATION (BIOLOGY)  
ELECTRON ENERGY  
ENERGY  
HEAT  
NUCLEAR BINDING ENERGY  
NUCLEAR CAPTURE  
PROTON ENERGY  
ROTORS  
SURFACE ENERGY  
ACTIVE SATELLITES  
0707 2004 3409  
NT EARLY BIRD SATELLITES  
SYNCOM 1 SATELLITE  
SYNCOM 2 SATELLITE  
SYNCOM 3 SATELLITE  
SYNCOM SATELLITES  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT ADVENT PROJECT  
EXPLORER 29 SATELLITE  
EXPLORER 36 SATELLITE  
GEODETIC SATELLITES  
GEOS-C SATELLITE  
GEOS 1 SATELLITE  
GEOS 2 SATELLITE  
NAVIGATION SATELLITES  
NAVSTAR SATELLITES  
PASSIVE SATELLITES  
SYNCHRONOUS SATELLITES  
ACTIVITY  
0603 2311 3406 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ACTIVITY (BIOLOGY)  
PACULAE  
INTRAVEHICULAR ACTIVITY  
RADIOACTIVITY  
SOLAR ACTIVITY  
ACTIVITY (BIOLOGY)  
0408  
UP BIOLOGICAL ACTIVITY  
RT ACTIVITY  
BIOLOGICAL EFFECTS  
CATALYTIC ACTIVITY  
ACTIVITY CYCLES (BIOLOGY)  
0403 0404 0408  
BT #CYCLES  
RT CIRCADIAN RHYTHMS  
RHYTHM (BIOLOGY)  
ACTUATION  
0603 1504  
RT ACTIVATION  
ACTUATORS  
#EXCITATION  
INITIATION  
NUTATION  
SENSITIZING  
STARTING  
STIMULATION  
ACTUATOR DISKS  
0303 1504  
BT DISKS (SHAPES)  
RT DISKS  
FANS

PROPELLERS  
ACTUATORS  
0303 1201  
UP CAMBRIDGE ACTUATED DEVICES  
HYDRAULIC ACTUATORS  
SERVOACTUATORS  
TRIGGERS  
RT ACTUATION  
AIRCRAFT HYDRAULIC SYSTEMS  
AUTOMATIC CONTROL VALVES  
CAMS  
CONTROL VALVES  
#CONTROLLERS  
#EXPLOSIVE DEVICES  
INSTRUMENTS  
MISSILE CONTROL  
PROPELLANT ACTUATED DEVICES  
PROPELLANT ACTUATED INSTRUMENTS  
#REGULATORS  
SERVO MECHANISMS  
SERVOMOTORS  
SOLENOIDS  
STARTERS  
TORQUE MOTORS  
#ACUITY  
0408  
NT HYPEROPIA  
VISUAL ACUITY  
RT #ADAPTATION  
#DISCRIMINATION  
FREQUENCY RESPONSE  
#PERCEPTION  
#SENSITIVITY  
THRESHOLDS (PERCEPTION)  
ACILATION  
0601 0602  
NT ACETYLATION  
BT #CHEMICAL REACTIONS  
RT FRIEDEL-CRAFT REACTION  
AD-A SATELLITE  
USE EXPLORER 19 SATELLITE  
AD/I B  
USE EXPLORER 24 SATELLITE  
EXPLORER 25 SATELLITE  
AD/I SATELLITE  
USE EXPLORER 24 SATELLITE  
#ADAPTATION  
0408 0506 2311 3406 3407  
NT ACCLIMATIZATION  
ALTITUDE ACCLIMATIZATION  
COLD ACCLIMATIZATION  
DARK ADAPTATION  
DESERT ADAPTATION  
LIGHT ADAPTATION  
RETINAL ADAPTATION  
RT #ACUITY  
CORRECTION  
FITTING  
HIBERNATION  
HOMEOSTASIS  
#PERCEPTION  
REACTION TIME  
#SENSITIVITY  
THRESHOLDS (PERCEPTION)  
VISION  
ADAPTERS  
1504 3203  
NT MULTIPLE DOCKING ADAPTERS  
RT CONNECTORS  
EXTENSIONS  
FITTINGS  
#JOINTS (JUNCTIONS)  
ADAPTIVE CONTROL  
0802 1003 1905 2102  
UP ADAPTIVE CONTROL SYSTEMS  
NT LEARNING MACHINES  
SELF ADAPTIVE CONTROL SYSTEMS  
BT #AUTOMATIC CONTROL  
RT ADAPTIVE FILTERS  
AUTOMATA THEORY  
AUTONOMY  
CONTROL  
CONTROL THEORY  
CYBERNETICS  
DYNAMIC CONTROL  
FEEDBACK CONTROL  
FEEDFORWARD CONTROL  
OPTIMAL CONTROL  
SELF ALIGNMENT  
ADAPTIVE CONTROL SYSTEMS  
USE ADAPTIVE CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

ADAPTIVE FILTERS  
1001 1003  
RT ADAPTIVE CONTROL  
BANDPASS FILTERS  
#ELECTRIC FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
FILTERS  
LINEAR FILTERS  
OPTICAL FILTERS  
TRACKING FILTERS  
ADDEES (CIRCUITS)  
USE ADDING CIRCUITS  
ADDING CIRCUITS  
0801 1201  
UP ADDERS (CIRCUITS)  
BINARY SUMMATORS  
SUBTRACTORS  
BT #CIRCUITS  
RT ACCUMULATORS (COMPUTERS)  
BINARY INTEGRATION  
#COMPUTER COMPONENTS  
LOGIC CIRCUITS  
ADDISONS DISEASE  
0404 0405  
BT #DISEASES  
RT ANEMIAS  
TUBERCULOSIS  
ADDITION  
1902  
RT ADDITION THEOREM  
ARITHMETIC  
#COMPUTATION  
#NUMBER THEORY  
RESTORATION  
ADDITION RESINS  
1810 1811  
(CARBON CHAIN POLYMERS--FOR HETEROATOM  
CHAIN POLYMERS, USE POLYETHER RESINS)  
NT ACRYLIC RESINS  
VINYL COPOLYMERS  
BT #PLASTICS  
#RESINS  
SYNTHETIC RESINS  
CROSSLINKING  
POLYBUTADIENE  
POLYETHYLENE TEREPHTHALATE  
POLYETHYLENES  
POLYISOBUTYLENE  
POLYPROPYLENE  
POLYSTYRENE  
POLYVINYL ALCOHOL  
POLYVINYL CHLORIDE  
SYNTHETIC FIBERS  
ADDITION THEOREM  
1902  
BT #NUMBER THEORY  
#THEOREMS  
RT ADDITION  
#ADDITIVES  
1704 1805  
UP DOPING (ADDITIVES)  
MODIFIERS  
ADMIXTURES  
ANTIFREEZES  
ANTICLING ADDITIVES  
ANTIKNOCK ADDITIVES  
ANTIOXIDANTS  
OIL ADDITIVES  
OPACIFIERS  
PLASTICIZERS  
PROPELLANT ADDITIVES  
PROPELLANT BINDERS  
SOLID ROCKET BINDERS  
RT AGENTS  
#BINDERS (MATERIALS)  
CARRIER INJECTION  
CATALYSTS  
#COATINGS  
DILUENTS  
DOPES  
FILLERS  
HIGH ENERGY FUELS  
INHIBITORS  
INTERSTITIALS  
LUBRICANTS  
MAJORITY CARRIERS  
MINORITY CARRIERS  
NEUTRALIZERS  
PIGMENTS  
PRESERVATIVES  
RETARDANTS  
SOLVENTS

# NASA THESAURUS (ALPHABETICAL LISTING)

STABILIZERS (AGENTS)  
 SUPPRESSORS  
 THICKENERS (MATERIALS)  
 TRAVELING SOLVENT METHOD  
 VINYL COPOLYMERS  
 ADDRESSING  
 0801 0802  
 RT CODING  
 COMPUTER PROGRAMMING  
 ADDUCTS  
 0603  
 RT CHEMICAL COMPOUNDS  
 ADENINES  
 0403 1808  
 NT RIBONUCLEIC ACIDS  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 #HETEROCYCLIC COMPOUNDS  
 NUCLEOSIDES  
 NUCLEOTIDES  
 #ORGANIC COMPOUNDS  
 PHOSPHATES  
 #PHOSPHORUS COMPOUNDS  
 #PROTEINS  
 #PURINES  
 ADENOSINE DIPHOSPHATE (ADP)  
 0403 1808  
 BT ADENOSINES  
 #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 DIPHOSPHATES  
 #HETEROCYCLIC COMPOUNDS  
 NUCLEOSIDES  
 NUCLEOTIDES  
 #ORGANIC COMPOUNDS  
 PHOSPHATES  
 #PHOSPHORUS COMPOUNDS  
 #PROTEINS  
 ADENOSINE TRIPHOSPHATE (ATP)  
 0403 1808  
 UP ATP  
 BT ADENOSINES  
 #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 #HETEROCYCLIC COMPOUNDS  
 NUCLEOSIDES  
 NUCLEOTIDES  
 #ORGANIC COMPOUNDS  
 PHOSPHATES  
 #PHOSPHORUS COMPOUNDS  
 #PROTEINS  
 RT AMINO ACIDS  
 ADENOSINES  
 0403 1808  
 NT ADENOSINE DIPHOSPHATE (ADP)  
 ADENOSINE TRIPHOSPHATE (ATP)  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 #HETEROCYCLIC COMPOUNDS  
 NUCLEOSIDES  
 NUCLEOTIDES  
 #ORGANIC COMPOUNDS  
 PHOSPHATES  
 #PHOSPHORUS COMPOUNDS  
 #PROTEINS  
 ADENOVIRUSES  
 0405 0407  
 BT #MICROORGANISMS  
 VIRUSES  
 ADEQUACY  
 3408  
 RT QUALITY  
 VALIDITY  
 ADHEROMETERS  
 USE ADHESION TESTS  
 ADHESION  
 2311 2404 3408  
 BT #SURFACE PROPERTIES  
 RT ADHESION TESTS  
 ADHESIVE BONDING  
 #BONDING  
 COLD WELDING  
 FUSION (MELTING)  
 INTERFACIAL ENERGY  
 INTERNAL PRESSURE  
 JOINING  
 METAL BONDING  
 PEELING  
 SEALING  
 SPREADING  
 TACKINESS  
 WETTABILITY

ADHESION TESTS  
 2311 2404 3408  
 UP ADHEROMETERS  
 FOKKER BOND TESTERS  
 RT ADHESION  
 #BONDING  
 #NONDESTRUCTIVE TESTS  
 TESTS  
 WETTABILITY  
 ADHESIVE BONDING  
 0603 1507 1704  
 BT #BONDING  
 RT ADHESION  
 CEMENTATION  
 JOINING  
 METAL BONDING  
 METAL-METAL BONDING  
 RESIN BONDING  
 SEALING  
 ADHESIVES  
 0403 1804 1808  
 UP BINDERS (ADHESIVES)  
 NT GLUES  
 PASTES  
 RT AGGLUTINATION  
 ALKYL RESINS  
 #BINDERS (MATERIALS)  
 CEMENTS  
 EPOXY RESINS  
 #FASTENERS  
 PURAN RESINS  
 #JOINTS (JUNCTIONS)  
 METAL-METAL BONDING  
 PLASTIC TAPES  
 SEALERS  
 SEAMS (JOINTS)  
 TAPES  
 ADIABATIC CONDITIONS  
 1202 1203 3304  
 UP NONADIABATIC CONDITIONS  
 BT CONDITIONS  
 RT ADIABATIC EQUATIONS  
 CARNOT CYCLE  
 COMPRESSING  
 ENTHALPY  
 #ENVIRONMENTS  
 #EXPANSION  
 ISENTROPE  
 ISOENERGETIC PROCESSES  
 ISOTHERMAL PROCESSES  
 POLYTROPIC PROCESSES  
 #TEMPERATURE  
 THERMAL ENVIRONMENTS  
 THERMODYNAMIC CYCLES  
 THERMODYNAMIC EQUILIBRIUM  
 ADIABATIC EQUATIONS  
 1202 1203 3304  
 RT ADIABATIC CONDITIONS  
 EQUATIONS OF STATE  
 HEAT TRANSMISSION  
 NONADIABATIC THEORY  
 SHOCK WAVES  
 ADIABATIC FLOW  
 1202  
 BT #FLUID FLOW  
 RT STAGNATION TEMPERATURE  
 ADIPOSE TISSUES  
 0404 0408  
 RT CONNECTIVE TISSUE  
 FATS  
 ADIPRENE (TRADEMARK)  
 1810  
 BT #RUBBER  
 SYNTHETIC RUBBERS  
 ADJOINTS  
 1902  
 BT #ALGEBRA  
 MATRICES (MATHEMATICS)  
 VECTOR SPACES  
 RT #DATA PROCESSING  
 NUMERICAL ANALYSIS  
 ADJUSTING  
 3407  
 UP ADJUSTMENT  
 READJUSTMENT  
 RT ALIGNMENT  
 CLEARANCES  
 COLLIMATION  
 CORRECTION  
 FITTING  
 FOCUSING  
 LEVELING

# ADVANCED ORBITING SOLAR OBSERVATORY

MATCHING  
 OPTICAL CORRECTION PROCEDURE  
 POSITIONING  
 REVISIONS  
 SETTING  
 SMOOTHING  
 ADJUSTMENT  
 USE ADJUSTING  
 ADMINISTRATION  
 USE #MANAGEMENT  
 ADMITTANCE  
 USE ELECTRICAL IMPEDANCE  
 ADMIXTURES  
 0602 1805  
 BT #ADDITIVES  
 #MIXTURES  
 RT ACCELERATING AGENTS  
 COMBINATION  
 CONCRETES  
 FORMULATIONS  
 INGREDIENTS  
 MIXERS  
 MORTARS (MATERIAL)  
 SURFACTANTS  
 ADRENAL GLAND  
 0404 0408  
 BT #ANATOMY  
 ENDOCRINE GLANDS  
 GLANDS (ANATOMY)  
 #VISCERA  
 RT ADRENAL METABOLISM  
 ADRENOCORTICOTROPIN (ACTH)  
 EPINEPHRINE  
 ADRENAL METABOLISM  
 0403 0404 0408  
 BT #METABOLISM  
 RT ADRENAL GLAND  
 ALDOSTERONE  
 CORTICOSTEROIDS  
 CORTISONE  
 HYDROCORTICOSTEROID  
 ADRENALINE  
 USE EPINEPHRINE  
 ADRENERGICS  
 0403 0404 0405  
 UP SYMPATHOMIMETICS  
 BT #DRUGS  
 RT ANTIADRENERGICS  
 ANTICOAGULANTS  
 ADRENOCORTICOTROPIN (ACTH)  
 0403 0404 1808  
 UP ACTH  
 RT #ACIDS  
 ADRENAL GLAND  
 AMINO ACIDS  
 #PROTEINS  
 ADSORBENTS  
 1804 1808  
 BT SORBENTS  
 RT ADSORBENTS  
 ADSORPTION  
 AIR CONDITIONING EQUIPMENT  
 CHARCOAL  
 DESICCANTS  
 ADSORPTION  
 0403 0603 2311  
 NT CHEMISORPTION  
 BT #SORPTION  
 RT ADSORPTION  
 ADSORBENTS  
 ADSORPTIVITY  
 BENEFICIATION  
 CHROMATOGRAPHY  
 CONCENTRATING  
 DESORPTION  
 #DIFFUSION  
 ELECTROSTATIC PRECIPITATORS  
 ELUTION  
 GAS CHROMATOGRAPHY  
 GAS-METAL INTERACTIONS  
 GIBBS ADSORPTION EQUATION  
 SEPARATION  
 WATER TREATMENT  
 ADSORPTIVITY  
 0602 2311 3408  
 BT #SURFACE PROPERTIES  
 RT ADSORPTION  
 #CHEMICAL PROPERTIES  
 CHEMISORPTION  
 PHYSICAL PROPERTIES  
 ADVANCED ORBITING SOLAR OBSERVATORY  
 USE AOSO

# ADVANCED RANGE INSTRUMENTATION SHIP

## ADVANCED RANGE INSTRUMENTATION SHIP

1102 1106 1402 1406 1410

UF ARIS INSTRUMENTATION SHIP

ADVANCED SODIUM COOLED REACTOR

2204

UF ASCR REACTOR

BT LIQUID COOLED REACTORS

LIQUID METAL COOLED REACTORS

#NUCLEAR REACTORS

ADVANCED TEST REACTORS

2204

UF ATR REACTOR

BT #NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

ADVANCED VIDICON CAMERA SYSTEM (AVCS)

0702 0707

UF AVCS

BT #COMMUNICATION EQUIPMENT

BT SYSTEMS

VIDEO EQUIPMENT

VIDICONS

## ADVECTION

1301 1302 2003 3008

BT ATMOSPHERIC CIRCULATION

CONVECTION

HEAT TRANSFER

PECTET NUMBER

ADVENT PROJECT

0702 0706

BT #PROGRAMS

PROJECTS

BT ACTIVE SATELLITES

COMMUNICATION SATELLITES

COURIER SATELLITE

RELAY SATELLITES

AE-A SATELLITE

USE EXPLORER 17 SATELLITE

AE-B SATELLITE

USE EXPLORER 32 SATELLITE

AEOLIAN TONES

1203 2301 2311

BT #ELASTIC WAVES

#FREQUENCIES

KARMAN VORTEX STREET

NOISE (SOUND)

SOUND WAVES

#WIND (METEOROLOGY)

AEOLOTROPISM

0603 2311

BT TROPISM

BT #ANISOTROPY

AERATION

0505 0603 2311

BT AGITATION

BENEFICIATION

BLOWING

BUBBLES

CORROSION PREVENTION

DEGASSING

DISSOLVING

ENTRAINMENT

MIXERS

MIXING

OXYGENATION

PURIFICATION

SEPARATION

SPRAYING

STIRRING

SUSPENDING (MIXING)

WATER TREATMENT

AERIAL EXPLOSIONS

1202 1408 2205

(EXPLOSIONS OCCURRING AT HEIGHTS LESS

THAN 50 KM)

UF AIR BLASTS

BT #EXPLOSIONS

BT BLAST LOADS

CHEMICAL EXPLOSIONS

NUCLEAR EXPLOSIONS

THERMONUCLEAR EXPLOSIONS

AERIAL PHOTOGRAPHY

1303 1401 2310

BT #IMAGERY

#PHOTOGRAPHY

BT AERIAL RECONNAISSANCE

ASTRONOMICAL PHOTOGRAPHY

CLOUD PHOTOGRAPHS

CLOUD PHOTOGRAPHY

COLOR PHOTOGRAPHY

EARTH RESOURCES SURVEY AIRCRAFT

FOREST FIRE DETECTION

GROUND TRUTH

## ICE MAPPING

IMAGE MOTION COMPENSATION

INFRARED PHOTOGRAPHY

ORTHOPHOTOGRAPHY

PHOTOZOOLOGY

PHOTOGRAMMETRY

PHOTOINTERPRETATION

ROCKET-BORNE PHOTOGRAPHY

SATELLITE-BORNE PHOTOGRAPHY

SPACEBORNE PHOTOGRAPHY

STEREOPHOTOGRAPHY

TIMBER INVENTORY

ULTRAVIOLET PHOTOGRAPHY

AERIAL RECONNAISSANCE

1303 1401 2002 2004 2310

BT RECONNAISSANCE

BT AERIAL PHOTOGRAPHY

EARTH RESOURCES SURVEY AIRCRAFT

GROUND TRUTH

HS-801 AIRCRAFT

METEOROLOGICAL FLIGHT

PHOTORECONNAISSANCE

RECONNAISSANCE AIRCRAFT

RECONNAISSANCE SPACECRAFT

AERIAL RUDDERS

0104 0202

BT #AIRFOILS

#CONTROL SURFACES

RUDDERS

BT FINS

HORIZONTAL TAIL SURFACES

MARINE RUDDERS

STABILIZERS (FLUID DYNAMICS)

TABS (CONTROL SURFACES)

TAIL ASSEMBLIES

AEROBEE ROCKET VEHICLE

2002 2003 3106 3108 3110

BT #ROCKET VEHICLES

SOUNDING ROCKETS

AEROBES

0404 0407

BT #MICROORGANISMS

BT BACTERIA

AEROBIOLOGY

0404 1301

BT AIR POLLUTION

AIRBORNE INFECTION

ENVIRONMENT POLLUTION

POLLEN

AERODONTALGIA

USE TOOTH DISEASES

AERODYNAMIC AXIS

USE AERODYNAMIC BALANCE

AERODYNAMIC BALANCE

0101 0102 0104

UF AERODYNAMIC AXIS

AERODYNAMIC CENTER

DRAG BALANCE

TRIM (BALANCE)

BT #AERODYNAMIC CHARACTERISTICS

BT AERODYNAMIC STABILITY

AIRCRAFT STABILITY

BALANCE

#DYNAMIC CHARACTERISTICS

HORIZONTAL FLIGHT

LIFT DRAG RATIO

MASS DISTRIBUTION

SPACECRAFT MOTION

SPACECRAFT STABILITY

STATIC AERODYNAMIC CHARACTERISTICS

TURNING FLIGHT

AERODYNAMIC BRAKES

0104 0202

BT BALLUTES

DRAG CHUTES

LEADING EDGE SLATS

PARAVULCOONS

SPLIT FLAPS

TRAILING-EDGE FLAPS

WING FLAPS

BT #BRAKES (FOR ARRESTING MOTION)

#DRAG DEVICES

BT AIRCRAFT BRAKES

#CONTROL SURFACES

FLAPS (CONTROL SURFACES)

RETRACTABLE EQUIPMENT

SPOILERS

AERODYNAMIC BUZZ

USE FLUTTER

AERODYNAMIC CENTER

USE AERODYNAMIC BALANCE

# NASA THESAURUS (ALPHABETICAL LISTING)

## #AERODYNAMIC CHARACTERISTICS

0101 0102 0104 3408

NT AERODYNAMIC BALANCE

AERODYNAMIC DRAG

AERODYNAMIC STABILITY

INTERFERENCE DRAG

INTERFERENCE LIFT

JET LIFT

LIFT

ROTOR LIFT

STATIC AERODYNAMIC CHARACTERISTICS

SUPERSONIC DRAG

ZERO LIFT

BT #AERODYNAMIC FORCES

AERODYNAMIC NOISE

AERODYNAMIC STALLING

ANGLE OF ATTACK

ASPECT RATIO

CROSS FLOW

#DYNAMIC CHARACTERISTICS

AERODYNAMIC CHORDS

USE #AIRFOIL PROFILES

CHORDS (GEOMETRY)

AERODYNAMIC COEFFICIENTS

0101

UF DRAG COEFFICIENT

LIFT COEFFICIENTS

PRESSURE COEFFICIENT

BT #COEFFICIENTS

AERODYNAMIC DRAG

#AERODYNAMIC FORCES

FLOW COEFFICIENTS

FLOW DISTORTION

FORCE DISTRIBUTION

LIFT

LIFT DRAG RATIO

PITCHING MOMENTS

PRESSURE DISTRIBUTION

ROLLING MOMENTS

YAWING MOMENTS

AERODYNAMIC CONFIGURATIONS

0101

(AERODYNAMIC VEHICLE SHAPES--FOR

LIFTING OR THRUSTING SURFACES USE

AIRFOILS)

BT AIRCRAFT CONFIGURATIONS

AIRCRAFT DESIGN

#AIRFOILS

BLUNT BODIES

BODIES OF REVOLUTION

BODY-WING AND TAIL CONFIGURATIONS

#CONES

CONFIGURATIONS

#CONTROL SURFACES

DESIGN

DISKS (SHAPES)

DRAG

PAIRINGS

PINNED BODIES

HALF CONES

HEMISPHERES

#INTAKE SYSTEMS

LAUNCH VEHICLE CONFIGURATIONS

LIFT

#LIFTING BODIES

MISSILE CONFIGURATIONS

MONOPLANES

NACELLES

PROPULSION SYSTEM CONFIGURATIONS

PROTUBERANCES

PYLON MOUNTING

REYNOLDS EQUATION

RING STRUCTURES

SATELLITE CONFIGURATIONS

SCALE MODELS

SEMI-SPAN MODELS

SLENDER BODIES

SLENDER CONES

SPACECRAFT CONFIGURATIONS

SPHERES

STREAMLINED BODIES

WEDGES

WIND TUNNEL MODELS

WING ROOTS

AERODYNAMIC DRAG

0101 0102 0204 0209

NT SUPERSONIC DRAG

BT #AERODYNAMIC CHARACTERISTICS

#AERODYNAMIC FORCES

DRAG

#DYNAMIC CHARACTERISTICS

FLOW RESISTANCE

# NASA THESAURUS (ALPHABETICAL LISTING)

**#FRICTION**  
 RT **AERODYNAMIC COEFFICIENTS**  
 BALLISTICS  
 BASE PRESSURE  
 DRAG MEASUREMENT  
 DRAG REDUCTION  
 GROUND EFFECT  
 HYPERSONIC FORCES  
 LIFT  
 LIFT DRAG RATIO  
 ORBIT DECAY  
 PRESSURE DRAG  
 RESISTANCE  
 SATELLITE DRAG  
**#TURBULENCE**  
**#AERODYNAMIC FORCES**  
 0101  
 UP GLAUERT COEFFICIENT  
 NT AERODYNAMIC DRAG  
 AERODYNAMIC LOADS  
 BLAST LOADS  
 GUST LOADS  
 HYPERSONIC FORCES  
 INTERFERENCE LIFT  
 JET LIFT  
 LIFT  
 ROTOR LIFT  
 SUPERSONIC DRAG  
 WING LOADING  
 ZERO LIFT  
 RT **#AERODYNAMIC CHARACTERISTICS**  
 AERODYNAMIC COEFFICIENTS  
 AERODYNAMIC STABILITY  
 FORCE  
**AERODYNAMIC HEAT TRANSFER**  
 0101 3303  
 NT HYPERSONIC HEAT TRANSFER  
 SUPERSONIC HEAT TRANSFER  
 BT HEAT TRANSFER  
 HEAT TRANSMISSION  
 RT **#TRANSMISSION**  
 ABLATION  
 AERODYNAMIC HEATING  
 AEROTHERMODYNAMICS  
 TURBULENT HEAT TRANSFER  
**AERODYNAMIC HEATING**  
 0101 3304  
 NT SHOCK HEATING  
 BT **#HEATING**  
 KINETIC HEATING  
 RT ABLATION  
 AERODYNAMIC HEAT TRANSFER  
 AERODYNAMICS  
 AEROTHERMOCHEMISTRY  
 AEROTHERMODYNAMICS  
**#ATMOSPHERIC ENTRY**  
 COMPRESSIBLE FLUIDS  
 CONVECTIVE HEAT TRANSFER  
 HYPERSONIC REENTRY  
 REENTRY  
 REENTRY EFFECTS  
 REENTRY SHIELDING  
 SKIN FRICTION  
 SKIN TEMPERATURE (NON-BIOLOGICAL)  
 TRANSIENT HEATING  
**AERODYNAMIC LIFT**  
 USE LIFT  
**AERODYNAMIC LOADS**  
 0101 0102 0104  
 NT BLAST LOADS  
 GUST LOADS  
 WING LOADING  
 BT **#AERODYNAMIC FORCES**  
 DYNAMIC LOADS  
**#LOADS (FORCES)**  
 RT AXIAL COMPRESSION LOADS  
 AXIAL LOADS  
 COMPRESSION LOADS  
 CRITICAL LOADING  
 EDGE LOADING  
 FORCE DISTRIBUTION  
 LOADING MOMENTS  
 PRESSURE DISTRIBUTION  
 SHOCK LOADS  
 STATIC LOADS  
 THRUST LOADS  
 TRANSIENT LOADS  
 VIBRATORY LOADS  
**AERODYNAMIC MOMENTS**  
 USE STABILITY DERIVATIVES

**AERODYNAMIC NOISE**  
 0101 0203 0704  
 UP BOUNDARY LAYER NOISE  
 BT **#ELASTIC WAVES**  
 NOISE (SOUND)  
 SOUND WAVES  
 RT **#AERODYNAMIC CHARACTERISTICS**  
 AEROELASTICITY  
 AIRCRAFT NOISE  
 FLUTTER  
 JET AIRCRAFT NOISE  
 NOISE REDUCTION  
 PANEL FLUTTER  
 SHOCK WAVES  
 SONIC BOOMS  
**AERODYNAMIC STABILITY**  
 0101  
 UP FLYING PLATFORM STABILITY  
 BT **#AERODYNAMIC CHARACTERISTICS**  
**#DYNAMIC CHARACTERISTICS**  
 DYNAMIC STABILITY  
 MOTION STABILITY  
**#STABILITY**  
 RT AERODYNAMIC BALANCE  
**#AERODYNAMIC FORCES**  
 AEROELASTICITY  
 AIRCRAFT STABILITY  
 ATTITUDE STABILITY  
 BALLAST (MASS)  
 BOUNDARY LAYER STABILITY  
 BUMPING  
 DIRECTIONAL STABILITY  
 DYNAMIC TESTS  
 FLIGHT STABILITY TESTS  
 FLOW STABILITY  
 FLUTTER  
 HELICOPTER PERFORMANCE  
 HOVERING  
 LATERAL STABILITY  
 LIQUID SLOSHING  
 LONGITUDINAL STABILITY  
 LOW SPEED STABILITY  
 MASS DISTRIBUTION  
 PRESSURE DISTRIBUTION  
 REENTRY  
 RICHARDSON NUMBER  
 SPACECRAFT MOTION  
 SPACECRAFT STABILITY  
 STATIC AERODYNAMIC CHARACTERISTICS  
 TURBULENCE EFFECTS  
 WIND TUNNEL STABILITY TESTS  
 WING OSCILLATIONS  
 YAW  
**AERODYNAMIC STALLING**  
 0101 0203  
 RT **#AERODYNAMIC CHARACTERISTICS**  
 AIRCRAFT PERFORMANCE  
 AIRSPEED  
 ANGLE OF ATTACK  
 BOUNDARY LAYER SEPARATION  
 LIFT DRAG RATIO  
 LOW SPEED STABILITY  
 STALLING  
 SWEEP ANGLE  
 ZERO LIFT  
**AERODYNAMIC VEHICLES**  
 USE AIRCRAFT  
**AERODYNAMICS**  
 0101 1202  
 UP HYDROAEROMECHANICS  
 NT AEROTHERMODYNAMICS  
 HYPERSONICS  
 ROTOR AERODYNAMICS  
 SUPERSONICS  
 BT FLUID DYNAMICS  
**#FLUID MECHANICS**  
 GAS DYNAMICS  
 RT AERODYNAMIC HEATING  
 AEROELASTICITY  
 AERONAUTICAL ENGINEERING  
 AERONAUTICS  
 AIRCRAFT  
**#AIRFOILS**  
 BLUNT BODIES  
 BODIES OF REVOLUTION  
 BOUNDARY LAYER CONTROL  
 COMPRESSIBLE FLOW  
**#CONTROL SURFACES**  
 DRAG  
 DYNAMICS  
 FLIGHT  
 FLIGHT CHARACTERISTICS

# AERONOMY

**FLIGHT MECHANICS**  
 FLOW  
 FLOW THEORY  
 GROUND EFFECT  
 HYPERSONIC FLIGHT  
 HYPERSONIC FLOW  
 INCOMPRESSIBLE FLOW  
 INVISCID FLOW  
 LAMINAR FLOW  
 LIFT  
 MACH NUMBER  
 MACH-ZEHNDER INTERFEROMETERS  
 REENTRY  
 SLENDER BODIES  
 SUBSONIC FLOW  
 SUPERSONIC FLOW  
 THERMODYNAMICS  
 TRANSONIC FLOW  
 TURBULENT FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 VISCOUS FLOW  
 WIND MEASUREMENT  
 WIND TUNNELS  
**AEROELASTICITY**  
 0101  
 UP THERMOAEROELASTICITY  
 NT AEROTHERMOELASTICITY  
 BT ELASTIC PROPERTIES  
 RT **#MECHANICAL PROPERTIES**  
 AERODYNAMIC NOISE  
 AERODYNAMIC STABILITY  
 AERODYNAMICS  
 AEROTHERMODYNAMICS  
 AIRCRAFT STRUCTURES  
 FLUTTER  
 INFLUENCE COEFFICIENT  
 PANEL FLUTTER  
 RIGID WINGS  
 THERMOELASTICITY  
 WING LOADING  
**AEROEMBOLISM**  
 0401 0408  
 BT EMBOLISMS  
 RT DECOMPRESSION SICKNESS  
**#STRESS (PHYSIOLOGY)**  
**AEROGYRO HELICOPTERS**  
 USE XH-51 HELICOPTER  
**AEROLOGY**  
 1302 2003  
 BT **#METEOROLOGY**  
 RT METEOROLOGICAL PARAMETERS  
 POLAR METEOROLOGY  
**#WIND (METEOROLOGY)**  
**AEROMAGNETISM**  
 USE GEOMAGNETISM  
**AEROMAGNETO FLUTTER**  
 USE FLUTTER  
**AERONAUTICAL ENGINEERING**  
 0201 3404  
 BT AEROSPACE ENGINEERING  
 RT AERODYNAMICS  
 AERONAUTICS  
 AIRCRAFT  
 AIRCRAFT DESIGN  
 AIRCRAFT INDUSTRY  
 AUXILIARY PROPULSION  
 COMPOUND HELICOPTERS  
 ENGINEERING  
 MECHANICAL ENGINEERING  
**#PROPULSION**  
 STRUCTURAL ENGINEERING  
**AERONAUTICS**  
 0201  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP AVIATION  
 RT AERODYNAMICS  
 AERONAUTICAL ENGINEERING  
 AIRPORTS  
 AVIONICS  
 CIVIL AVIATION  
 HUMAN FACTORS ENGINEERING  
**AERONOMY**  
 1302 1308 2003 3008  
 RT AIRGLOW  
 ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC PHYSICS  
 AURORAS  
 GEOPHYSICS  
**#METEOROLOGY**



# AEROPHYSICS

UPPER ATMOSPHERE  
**AEROPHYSICS**  
 USE ATMOSPHERIC PHYSICS  
**AEROSATELLITE**  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 SYNCHRONOUS SATELLITES  
**AEROSINUSITIS**  
 0401 0408  
 BT #DISEASES  
 RESPIRATORY DISEASES  
 RT ALTITUDE SICKNESS  
**AEROSOLS**  
 0505 0603 2003  
 NT FOG  
 BT COLLOIDS  
 DISPERSIONS  
 LIQUID-GAS MIXTURES  
 #MIXTURES  
 #PARTICLES  
 RT AIR POLLUTION  
 ATOMIZING  
 #DUST  
 ENTRAINMENT  
 ENVIRONMENT POLLUTION  
 PUMES  
 MIST  
 MIXERS  
 SMOKE  
 SMOKE ABATEMENT  
 SPRAYING  
**AEROSPACE ENGINEERING**  
 0201 3009 3404  
 UF SPACE SYSTEMS ENGINEERING  
 NT AERONAUTICAL ENGINEERING  
 RT AEROSPACE INDUSTRY  
 AEROSPACE SCIENCES  
 AEROSPACE SYSTEMS  
 AIRCRAFT  
 ENGINEERING  
 MECHANICAL ENGINEERING  
 MISSILE DESIGN  
 STRUCTURAL ENGINEERING  
**AEROSPACE ENVIRONMENTS**  
 2903 3004 3007 3009  
 UF SPACE ENVIRONMENT  
 NT CISELUNAR SPACE  
 DEEP SPACE  
 INTERPLANETARY SPACE  
 INTERSTELLAR SPACE  
 BT #ENVIRONMENTS  
 RT AEROSPACE MEDICINE  
 AEROSPACE SCIENCES  
 ASTRONAUTICS  
 BIOASTRONAUTICS  
 BIOSATELLITES  
 COSMIC RAYS  
 #EARTH ATMOSPHERE  
 #ELECTROMAGNETIC RADIATION  
 EXOBIOLOGY  
 EXTRATERRESTRIAL ENVIRONMENTS  
 EXTRATERRESTRIAL LIFE  
 #EXTRATERRESTRIAL RADIATION  
 EXTRAVEHICULAR ACTIVITY  
 JUPITER ATMOSPHERE  
 LIFE SUPPORT SYSTEMS  
 LUNAR ENVIRONMENT  
 MANNED SPACE FLIGHT  
 MARS ATMOSPHERE  
 PLANETARY ENVIRONMENTS  
 RADIATION BELTS  
 SOLAR RADIATION  
 SPACE EXPLORATION  
 #SPACE FLIGHT  
 SPACECRAFT CABIN SIMULATORS  
 THERMAL ENVIRONMENTS  
 VACUUM  
 VENUS ATMOSPHERE  
**AEROSPACE INDUSTRY**  
 0204 3404  
 NT AIRCRAFT INDUSTRY  
 BT #INDUSTRIES  
 RT AEROSPACE ENGINEERING  
 AIRCRAFT  
**AEROSPACE MEDICINE**  
 0401  
 RT AEROSPACE ENVIRONMENTS  
 BIOASTRONAUTICS  
 BIOMEDICAL DATA

CLOSED ECOLOGICAL SYSTEMS  
 #MEDICAL SCIENCE  
 MEDICINE  
 MOBILE QUARANTINE FACILITY  
 RADIOLOGY  
 SPACECRAFT ENVIRONMENTS  
 WEIGHTLESSNESS  
**AEROSPACE SCIENCES**  
 0101 0201 0401 1308 1902 2003 3009  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UF SPACE SCIENCES  
 BT AEROSPACE ENGINEERING  
 AEROSPACE ENVIRONMENTS  
 AEROSPACE SYSTEMS  
 ASTRONOMY  
 ENVIRONMENTAL ENGINEERING  
 #EXTRATERRESTRIAL RADIATION  
 LIFE SCIENCES  
 SPACE LABORATORIES  
**AEROSPACE SYSTEMS**  
 0201 3009  
 RT AEROSPACE ENGINEERING  
 AEROSPACE SCIENCES  
 MISSILE SYSTEMS  
 SYSTEMS  
 SYSTEMS ENGINEERING  
**AEROSPACE VEHICLES**  
 0201 3107 3110  
 RT AIRCRAFT  
 SPACECRAFT  
**AEROSPACEPLANES**  
 0201 3110  
 NT ASTROPLANE  
 BT #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 REUSABLE SPACECRAFT  
 #SOFT LANDING SPACECRAFT  
 RT AIRCRAFT  
 ASTRO VEHICLE  
 BOOSTGLIDE VEHICLES  
 #GLIDERS  
 HYPERSONIC AIRCRAFT  
 HYPERSONIC GLIDERS  
 #LAUNCH VEHICLES  
 LIFTING REENTRY VEHICLES  
 LIQUID AIR CYCLE ENGINES  
 #MILITARY SPACECRAFT  
 RESEARCH AIRCRAFT  
 ROCKET PLANES  
 X-20 AIRCRAFT  
**AEROSTATS**  
 USE AIRSHIPS  
**AEROTHERMOCHEMISTRY**  
 0101 0104 0603 3304  
 BT THERMOCHEMISTRY  
 RT ABLATION  
 AERODYNAMIC HEATING  
 AEROTHERMODYNAMICS  
 ATMOSPHERIC CHEMISTRY  
 CHEMICAL ENGINEERING  
 CHEMISTRY  
 NOZZLE FLOW  
 PHYSICAL CHEMISTRY  
 PYROMETALLURGY  
 REENTRY PHYSICS  
 REENTRY SHIELDING  
 #REENTRY VEHICLES  
**AEROTHERMODYNAMICS**  
 0104 3303 3304  
 BT AERODYNAMICS  
 FLUID DYNAMICS  
 #FLUID MECHANICS  
 GAS DYNAMICS  
 THERMODYNAMICS  
 RT AERODYNAMIC HEAT TRANSFER  
 AERODYNAMIC HEATING  
 AEROELASTICITY  
 AEROTHERMOCHEMISTRY  
 ASSET PROJECT  
 CHEMISTRY  
 COMBUSTION PHYSICS  
 HYPERSONIC HEAT TRANSFER  
 HYPERSONIC REENTRY  
 HYPERSONICS  
 RANKINE-HUGONIOT RELATION  
 REENTRY  
 REENTRY PHYSICS  
 SKIN TEMPERATURE (NON-BIOLOGICAL)

# NASA THESAURUS (ALPHABETICAL LISTING)

SUPERSONICS  
 THERMOELASTICITY  
**AEROTHERMOELASTICITY**  
 0101 2308 3304 3408  
 BT AEROELASTICITY  
 ELASTIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 THERMOELASTICITY  
**AERROZINE**  
 2702  
 (HYDRAZINE-UDMH MIXTURE)  
 BT CHEMICAL FUELS  
 #FUELS  
 LIQUID ROCKET PROPELLANTS  
 #LIQUIDS  
 MONOPROPELLANTS  
 #PROPELLANTS  
 ROCKET PROPELLANTS  
 RT DIMETHYLHYDRAZINES  
 HYDRAZINES  
**APC (CONTROL)**  
 USE AUTOMATIC FREQUENCY CONTROL  
**APCS (CONTROL SYSTEM)**  
 USE AUTOMATIC FLIGHT CONTROL  
**AFFECTS**  
 USE EFFECTS  
**APFERENT NERVOUS SYSTEMS**  
 0503  
 BT #NERVOUS SYSTEM  
 RT #SENSORIMOTOR PERFORMANCE  
**AFFINITY**  
 3408  
 RT ATTRACTION  
 COMPATIBILITY  
**AFGHANISTAN**  
 1305  
 RT ASIA  
 NATIONS  
**AFRICA**  
 1305  
 BT #CONTINENTS  
 RT ALGERIA  
 ANGOLA  
 EGYPT  
 GUINEA  
 LIBERIA  
 LIBYAN DESERT  
 MOROCCO  
 NATIONS  
 NIGERIA  
 TANZANIA  
**AFTERBODIES**  
 3105 3110  
 UF CYLINDRICAL AFTERBODIES  
 STERNS  
 RT BASE HEATING  
 BOATTAILS  
 BODIES  
 CENTERBODIES  
 CONICAL BODIES  
 CYLINDRICAL BODIES  
 FLARED BODIES  
 #FOREBODIES  
 SKIRTS  
 TAIL ASSEMBLIES  
**AFTERBURNERS**  
 USE AFTERBURNING  
**AFTERBURNING**  
 2801 2802 2805 3301  
 UF AFTERBURNERS  
 BT #COMBUSTION  
 RT BURNERS  
 EXHAUST SYSTEMS  
 INTERNAL COMBUSTION ENGINES  
 J-57 ENGINE  
 J-57-P-20 ENGINE  
 JET ENGINES  
 THRUST AUGMENTATION  
**AFTERGLOWS**  
 1302 2502 2902  
 NT HELIUM AFTERGLOW  
 OXYGEN AFTERGLOW  
 RT ATMOSPHERIC IONIZATION  
 GAS DISCHARGES  
 GAS IONIZATION  
 LIGHT SCATTERING  
 LUMINESCENCE  
 PHOSPHORESCENCE  
 PLASMA DECAY  
**AFTERIMAGES**  
 0408 2301 2306  
 BT IMAGES

# NASA THESAURUS (ALPHABETICAL LISTING)

RT CRITICAL FLICKER FUSION  
ILLUSIONS  
#PSYCHOLOGICAL EFFECTS  
SENSORY PERCEPTION  
VISUAL PERCEPTION

AFU P-16 AIRCRAFT  
USE P-16 AIRCRAFT

AGC (CONTROL)  
USE AUTOMATIC GAIN CONTROL

AGE DETERMINATION  
USE CHRONOLOGY

AGE FACTOR  
0408

RT AGING (BIOLOGY)  
LIFE SPAN

AGE HARDENING  
USE PRECIPITATION HARDENING

AGENA A ROCKET VEHICLE  
3106 3108 3409

BT AGENA ROCKET VEHICLES  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES

RT DISCOVERER SATELLITES  
THOR AGENA LAUNCH VEHICLE

AGENA B RANGER PROGRAM  
3409

BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RANGER PROJECT

RT THOR AGENA LAUNCH VEHICLE

AGENA B ROCKET VEHICLE  
3106 3108 3110

BT AGENA ROCKET VEHICLES  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES

RT DISCOVERER SATELLITES  
ECHO SATELLITES  
EGO  
GEMINI PROJECT  
MARINER PROGRAM  
OAO  
POGO  
RANGER PROJECT

AGENA C ROCKET VEHICLE  
3106 3108 3409

BT AGENA ROCKET VEHICLES  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES

AGENA D ROCKET VEHICLE  
3106 3108 3110

BT AGENA ROCKET VEHICLES  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES

AGENA ROCKET VEHICLES  
3106 3108 3110 3409

NT AGENA A ROCKET VEHICLE  
AGENA B ROCKET VEHICLE  
AGENA C ROCKET VEHICLE  
AGENA D ROCKET VEHICLE

BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES

RT ATLAS AGENA B LAUNCH VEHICLE  
ATLAS AGENA LAUNCH VEHICLES  
DISCOVERER SATELLITES  
ECHO SATELLITES  
GEMINI PROJECT  
MARINER PROGRAM  
RANGER PROJECT  
THOR AGENA LAUNCH VEHICLE

AGENTS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ACCELERATING AGENTS  
#ADDITIVES  
ANTICOAGULANTS  
ANTIOXIDANTS  
DILUENTS  
NEUTRALIZERS  
OPACIFIERS  
#OXIDIZERS  
PENETRANTS  
PRESERVATIVES  
STABILIZERS (AGENTS)  
SURFACTANTS

AGGLOMERATION  
1504 3203

RT ACCUMULATIONS  
CEMENTATION  
CLUMPS

COAGULATION  
COALESCING  
COMPACTING  
CONCENTRATING  
CRYSTALLIZATION  
DENSIFICATION  
FLOCCULATING  
LUMPING  
PLUGGING  
PRECIPITATION (CHEMISTRY)  
SEPARATION  
SETTLING  
SINTERING

AGGLUTINATION  
0403 0405 0408 0603

RT ADHESIVES

AGGREGATES  
3203

BT CONCRETES  
CONSTRUCTION MATERIALS  
DOLomite (MINERAL)  
GRAVELS  
LAVA  
LIMESTONE  
ROCKS  
SANDS  
SLAGS

AGING  
3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT AGING (BIOLOGY)  
AGING (MATERIALS)  
AGING (METALLURGY)  
RADIOACTIVE AGE DETERMINATION

AGING (BIOLOGY)  
0401 0408

RT AGE FACTOR  
AGING  
GERIATRICS  
GERONTOLOGY  
LIFE SCIENCES  
LIFE SPAN  
MORTALITY

AGING (MATERIALS)  
1504 1704 1805

NT AGING (METALLURGY)  
AGING  
#HARDENING (MATERIALS)  
#MECHANICAL PROPERTIES  
MICROSTRUCTURE  
STRAIN HARDENING

AGING (METALLURGY)  
1702 1704

BT AGING (MATERIALS)  
RT AGING  
#HARDENING (MATERIALS)  
#HEAT TREATMENT  
MICROSTRUCTURE  
SOLID SOLUTIONS  
STRAIN HARDENING  
SUPERCOOLING

AGITATION  
0602 3407

NT ULTRASONIC AGITATION

RT AERATION  
BLOWING  
CHEMICAL REACTION CONTROL  
COALESCING  
COLLOIDING  
DISPERSING  
DISPOSAL  
HOMOGENIZING  
MIXERS  
MIXING  
SEPARATION  
SETTLING  
SHAKING  
SIZING SCREENS  
SPLASHING  
SUSPENDING (MIXING)  
SWIRLING  
TURBULENT MIXING  
VORTICES  
WATER TREATMENT

AGREEMENTS  
3403 3406

RT CONTRACTS  
CONVENTIONS  
SUBCONTRACTS

## AIR BREATHING ENGINES

AGRICULTURAL AIRCRAFT  
USE UTILITY AIRCRAFT

AGRICULTURE  
0404 0409

RT BOTANY  
CONSERVATION  
CROP GROWTH  
CROP VIGOR  
CROPS  
FARM CROPS  
FRUITS  
HALOPHILES  
HYDROPONICS  
IRRIGATION  
LEGUMINOUS PLANTS  
#PLANTS (BOTANY)  
PLOTS  
SOIL SCIENCE  
TRACTORS

AIDS  
3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #LANDING AIDS  
#NAVIGATION AIDS

AILERONS  
0104 0201

RT SPOILER SLOT AILERONS

BT #AIRFOILS  
#CONTROL SURFACES  
ELEVATORS (CONTRL SURFACES)  
ELEVONS  
LATERAL CONTROL  
TABS (CONTROL SURFACES)

AIRMP-E  
USE EXPLORER 35 SATELLITE

AIR  
0101 0504 1203 1308 1506 1805 2311

UF SECONDARY AIR

NT ALVEOLAR AIR  
COMPRESSED AIR  
EXPIRED AIR  
HIGH TEMPERATURE AIR  
LIQUID AIR

RT ATMOSPHERES  
ATMOSPHERIC COMPOSITION  
#EARTH ATMOSPHERE  
#ENVIRONMENTS  
GAS MIXTURES  
#GASES

AIR BEARINGS  
USE GAS BEARINGS

AIR BLASTS  
USE AERIAL EXPLOSIONS

AIR BREATHING ENGINES  
2805

NT BRISTOL-SIDDELEY BS 53 ENGINE  
BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
BRISTOL-SIDDELEY VIPER ENGINE  
CF-700 ENGINE  
DUCTED FAN ENGINES  
GAS TURBINE ENGINES  
J-33 ENGINE  
J-34 ENGINE  
J-40 ENGINE  
J-47 ENGINE  
J-57 ENGINE  
J-65 ENGINE  
J-71 ENGINE  
J-73 ENGINE  
J-75 ENGINE  
J-79 ENGINE  
J-85 ENGINE  
J-93 ENGINE  
J-97 ENGINE  
J-57-P-20 ENGINE  
J-69-T-25 ENGINE  
JET ENGINES  
LOW VOLUME RAMJET ENGINES  
PTL-6 ENGINE  
PULSEJET ENGINES  
RA-28 ENGINE  
RAMJET ENGINES  
STP-102 ENGINE  
SUPERSONIC COMBUSTION RAMJET  
ENGINES  
T-53 ENGINE  
T-56 ENGINE  
T-64 ENGINE  
T-74 ENGINE  
T-58-GE-8B ENGINE

# AIR CARGO

TF-106 ENGINE  
 TURBOPAN ENGINES  
 TURBOJET ENGINES  
 TURBOPROP ENGINES  
 TURBORAMJET ENGINES  
 BT #ENGINES  
 RT TURBOJET ENGINES  
 AIR CARGO  
 1103 1502  
 UP AIR FREIGHT  
 NT AIR MAIL  
 BT #CARGO  
 RT AIR TRANSPORTATION  
 AIRFIELD SURFACE MOVEMENTS  
 AIRLINE OPERATIONS  
 BAGGAGE  
 CARGO AIRCRAFT  
 GROUND HANDLING  
 AIR CONDITIONING  
 0504 0505 1504  
 RT AIR FLOW  
 AIR POLLUTION  
 BLOWERS  
 COMFORT  
 CONDENSERS (LIQUIFIERS)  
 #CONTROLLED ATMOSPHERES  
 COOLANTS  
 COOLERS  
 #COOLING  
 COOLING SYSTEMS  
 DIFFUSERS  
 EXHAUST SYSTEMS  
 PREON (TRADEMARK)  
 HEAT PUMPS  
 #HEATING  
 #HEATING EQUIPMENT  
 HUMIDITY  
 INFILTRATION  
 LIFE SUPPORT SYSTEMS  
 REFRIGERANTS  
 REFRIGERATING  
 REFRIGERATING MACHINERY  
 #TEMPERATURE  
 TEMPERATURE CONTROL  
 TEMPERATURE DISTRIBUTION  
 THERMAL INSULATION  
 TREATMENT  
 VENTILATION  
 AIR CONDITIONING EQUIPMENT  
 0504 0505 1408  
 RT ABSORBENTS  
 ABSORBERS (EQUIPMENT)  
 ADSORBENTS  
 AIR FILTERS  
 BLOWERS  
 COMPRESSORS  
 CONDENSERS (LIQUIFIERS)  
 COOLERS  
 COOLING SYSTEMS  
 DIFFUSERS  
 EQUIPMENT  
 EVAPORATORS  
 FANS  
 HEAT PUMPS  
 #HEATING EQUIPMENT  
 OXYGEN SUPPLY EQUIPMENT  
 REFRIGERATING MACHINERY  
 AIR CONDUCTIVITY  
 1301 1302 2301 2302 3008  
 RT ATMOSPHERIC CONDUCTIVITY  
 ELECTRICAL RESISTIVITY  
 THERMAL CONDUCTIVITY  
 AIR COOLING  
 3303  
 (COOLING WITH AIR)  
 BT #COOLING  
 RT COOLANTS  
 COOLERS  
 COOLING SYSTEMS  
 LIQUID COOLING  
 REFRIGERATING  
 VENTILATION  
 AIR CURRENTS  
 0201 1202 1301 2003 2103  
 UP TURBULENT AIR CURRENTS  
 NT JET STREAMS (METEOROLOGY)  
 MERIDIONAL FLOW  
 VERTICAL AIR CURRENTS  
 BT AIR FLOW  
 #FLUID FLOW  
 GAS FLOW  
 RT BAROTROPIC FLOW

BOUNDARY LAYER TRANSITION  
 CONVECTION CURRENTS  
 CURRENTS  
 GROUND WIND  
 LEE WAVES  
 #WIND (METEOROLOGY)  
 AIR CUSHION VEHICLES  
 USE GROUND EFFECT MACHINES  
 AIR DEFENSE  
 0207 3401  
 NT ANTIMISSILE DEFENSE  
 SAGE AIR DEFENSE SYSTEM  
 RT BALLISTIC MISSILE EARLY WARNING  
 SYSTEM  
 CAMOUFLAGE  
 CIVIL DEFENSE  
 DECEPTION  
 DEFENSE  
 DEFENSE PROGRAM  
 EARLY WARNING SYSTEMS  
 JAMMERS  
 SPACE SURVEILLANCE (GROUND BASED)  
 SPACE SURVEILLANCE (SPACEBORNE)  
 AIR DENSITY EXPLORER A  
 USE EXPLORER 19 SATELLITE  
 AIR DENSITY/INJUM EXPLORER B  
 USE EXPLORER 24 SATELLITE  
 EXPLORER 25 SATELLITE  
 AIR DUCTS  
 1202 1504 3202  
 BT DUCTS  
 RT AIR FILTERS  
 AIR FLOW  
 AIR INTAKES  
 AIR JETS  
 BLOWERS  
 EXHAUST NOZZLES  
 FANS  
 GAS FLOW  
 VENTILATORS  
 AIR FILTERS  
 0505 1504  
 BT CLEANERS  
 FLUID FILTERS  
 #SEPARATORS  
 RT AIR CONDITIONING EQUIPMENT  
 AIR DUCTS  
 AIR INTAKES  
 COOLING SYSTEMS  
 DUST COLLECTORS  
 PRECIPITATORS  
 VENTILATION  
 AIR FLOW  
 0101 1110 1202 1203  
 NT AIR CURRENTS  
 JET STREAMS (METEOROLOGY)  
 MERIDIONAL FLOW  
 VERTICAL AIR CURRENTS  
 BT #FLUID FLOW  
 GAS FLOW  
 RT AIR CONDITIONING  
 AIR DUCTS  
 AIR JETS  
 ATMOSPHERIC BOUNDARY LAYER  
 BAROTROPIC FLOW  
 BLATON FORMULA  
 COMPRESSIBLE FLOW  
 CURRENTS  
 DUCTED FLOW  
 STREAMLINING  
 STREAMS  
 VENTILATION  
 AIR FREIGHT  
 USE AIR CARGO  
 AIR INLETS  
 USE AIR INTAKES  
 AIR INTAKES  
 0101 0201 1202  
 UP AIR INLETS  
 NT ENGINE INLETS  
 HYPERSONIC INLETS  
 SUPERSONIC INLETS  
 BT #INTAKE SYSTEMS  
 RT AIR DUCTS  
 AIR FILTERS  
 AIR JETS  
 CONICAL INLETS  
 COWLINGS  
 INLET NOZZLES  
 INTERNAL COMPRESSION INLETS  
 MANIFOLDS  
 NACELLES

# NASA THESAURUS (ALPHABETICAL LISTING)

NOSE INLETS  
 PLENUM CHAMBERS  
 SCOOPS  
 SIDE INLETS  
 SUPERCHARGERS  
 SUPERSONIC DIFFUSERS  
 VENTILATION  
 VENTILATORS  
 WATER INTAKES  
 AIR JETS  
 1202  
 BT #FLUID FLOW  
 FLUID JETS  
 JET FLOW  
 RT AIR DUCTS  
 AIR FLOW  
 AIR INTAKES  
 GAS FLOW  
 GAS JETS  
 JET STREAMS (METEOROLOGY)  
 JETS  
 VAPOR JETS  
 AIR LAUNCHING  
 1104 3102 3103  
 BT #LAUNCHING  
 RT MULTISTAGE ROCKET VEHICLES  
 PIGGYBACK SYSTEMS  
 AIR LOCKS  
 0203 0303 0506 0507 0508 1408 3202  
 BT #COMPARTMENTS  
 RT DOORS  
 EGRESS  
 ENCLOSURES  
 HATCHES  
 LOCKS  
 PRESSURE CHAMBERS  
 SEALS (STOPPERS)  
 AIR MAIL  
 0204  
 BT AIR CARGO  
 #CARGO  
 AIR MASSES  
 1301 2003  
 RT ANTICYCLONES  
 ATMOSPHERIC CIRCULATION  
 FRONTS (METEOROLOGY)  
 #METEOROLOGY  
 SYNOPTIC METEOROLOGY  
 WEATHER FORECASTING  
 AIR NAVIGATION  
 0201 2103  
 NT ALL-WEATHER AIR NAVIGATION  
 BT #NAVIGATION  
 RT ACCORDION PROJECT  
 AIR TRAFFIC CONTROL  
 ASTRONAVIGATION  
 CELESTIAL NAVIGATION  
 CELESTIAL REFERENCE SYSTEMS  
 COLLISION AVOIDANCE  
 CONTROL  
 DEAD RECKONING  
 DIGITAL NAVIGATION  
 DOPPLER NAVIGATION  
 #FLIGHT INSTRUMENTS  
 FLIGHT PATHS  
 FLIGHT PLANS  
 FLIGHT RULES  
 #GUIDANCE (MOTION)  
 HYPERBOLIC NAVIGATION  
 INERTIAL NAVIGATION  
 INSTRUMENT FLIGHT RULES  
 LORAN  
 LORAN C  
 LORAN D  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 #NAVIGATION AIDS  
 OMEGA NAVIGATION SYSTEM  
 POLAR NAVIGATION  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 SHORAN  
 SOLAR COMPASSES  
 SPACE NAVIGATION  
 VHF OMNIRANGE NAVIGATION  
 VISUAL FLIGHT  
 AIR PIRACY  
 0203 3403  
 UP HIJACKING  
 RT AIRCRAFT SAFETY  
 FLIGHT HAZARDS  
 FLIGHT SAFETY

# NASA THESAURUS (ALPHABETICAL LISTING)

OPERATIONAL HAZARDS  
 AIR POLLUTION  
 0411 0505 2003  
 UP ATMOSPHERIC IMPURITIES  
 BT ENVIRONMENT POLLUTION  
 #POLLUTION  
 RT AEROBIOLOGY  
 AEROSOLS  
 AIR CONDITIONING  
 AIR SAMPLING  
 ASHES  
 ATMOSPHERIC CHEMISTRY  
 ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC DENSITY  
 COMBUSTION PRODUCTS  
 CONTAMINATION  
 #DIFFUSION  
 DROPS (LIQUIDS)  
 #DUST  
 #EARTH ATMOSPHERE  
 EARTH ENVIRONMENT  
 EPFLUENTS  
 #ENVIRONMENTS  
 EXHAUST GASES  
 EXHAUST SYSTEMS  
 FALLOUT  
 HAZE  
 HUMAN WASTES  
 METABOLIC WASTES  
 ODORS  
 #OXIDIZERS  
 #PARTICLES  
 POLLEN  
 SMOG  
 SMOKE  
 SMOKE ABATEMENT  
 SOOT  
 TEMPERATURE INVERSIONS  
 WASTE DISPOSAL  
 #WASTES  
 #WIND (METEOROLOGY)  
 AIR PURIFICATION  
 0505  
 BT PURIFICATION  
 RT CARBON DIOXIDE CONCENTRATION  
 CARBON DIOXIDE REMOVAL  
 DECONTAMINATION  
 ELECTROSTATIC PRECIPITATORS  
 HOPCALITE (TRADEMARK)  
 REBREATHING  
 STERILIZATION  
 VENTILATION  
 AIR SAMPLING  
 0411 0505 1301 1302 2003  
 BT SAMPLING  
 RT AIR POLLUTION  
 ELECTROSTATIC PRECIPITATORS  
 ENVIRONMENT POLLUTION  
 GAS ANALYSIS  
 SMOG  
 AIR SICKNESS  
 USE MOTION SICKNESS  
 AIR TO AIR MISSILES  
 3101 3401  
 UP AIR TO AIR ROCKETS  
 NT FALCON MISSILE  
 MATRA MISSILE  
 SIDEWINDER MISSILES  
 SPARROW 2 MISSILE  
 SPARROW 3 MISSILE  
 SPARROW MISSILES  
 BT #MISSILES  
 RT AIR TO SURFACE MISSILES  
 ANTIAIRCRAFT MISSILES  
 RAMJET MISSILES  
 SKYDART 2 ROCKET VEHICLE  
 SPACE WEAPONS  
 SURFACE TO AIR MISSILES  
 AIR TO AIR REFUELING  
 0202 2701  
 BT REFUELING  
 RT TANKER AIRCRAFT  
 AIR TO AIR ROCKETS  
 USE AIR TO AIR MISSILES  
 AIR TO SURFACE MISSILES  
 3101 3401  
 NT BULLPUP MISSILES  
 CONDOR MISSILE  
 HOUND DOG MISSILE  
 MAVERICK MISSILES  
 QUAIL MISSILE  
 SHRIKE MISSILE

BT #MISSILES  
 RT AIR TO AIR MISSILES  
 MISS DISTANCE  
 ORDNANCE  
 SURFACE TO AIR MISSILES  
 SURFACE TO SURFACE MISSILES  
 #WEAPON SYSTEMS  
 AIR TRAFFIC  
 0201  
 BT TRAFFIC  
 RT AIR TRAFFIC CONTROL  
 AIR TRANSPORTATION  
 AIRCRAFT HAZARDS  
 AIRLINE OPERATIONS  
 AIRSPACE  
 COLLISION AVOIDANCE  
 FLIGHT HAZARDS  
 FLIGHT PATHS  
 FLIGHT PLANS  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 NATIONAL AVIATION SYSTEM  
 AIR TRAFFIC CONTROL  
 0203 0702 2101  
 NT RADAR APPROACH CONTROL  
 BT #GROUND BASED CONTROL  
 #TRAFFIC CONTROL  
 RT AIR NAVIGATION  
 AIR TRAFFIC  
 AIRCRAFT APPROACH SPACING  
 AIRCRAFT COMMUNICATION  
 AIRCRAFT GUIDANCE  
 AIRCRAFT SAFETY  
 AIRPORT SURFACE DETECTION EQUIPMENT  
 AIRPORT TOWERS  
 AIRPORTS  
 AIRSPACE  
 APPROACH  
 APPROACH CONTROL  
 APPROACH INDICATORS  
 #ATTITUDE CONTROL  
 COLLISION AVOIDANCE  
 COLLISIONS  
 FLIGHT ALTITUDE  
 #FLIGHT CONTROL  
 FLIGHT PATHS  
 FLIGHT PLANS  
 FLIGHT RULES  
 FLIGHT SAFETY  
 FLIGHT TIME  
 GROUND-AIR-GROUND COMMUNICATIONS  
 GROUND SUPPORT EQUIPMENT  
 HELIPORTS  
 INSTRUMENT FLIGHT RULES  
 INSTRUMENT LANDING SYSTEMS  
 #LANDING  
 #LANDING AIDS  
 LANDING INSTRUMENTS  
 LANDING RADAR  
 LOCATES SYSTEM  
 MIDAIR COLLISIONS  
 MILITARY AIR FACILITIES  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 NATIONAL AVIATION SYSTEM  
 #NAVIGATION AIDS  
 OPERATIONS  
 RADAR BEACONS  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 ROUTES  
 SOLAR COMPASSES  
 SURVEILLANCE RADAR  
 TAKEOFF  
 TAXIING  
 TOWERS  
 #TRACKING (POSITION)  
 TRANSPONDERS  
 AIR TRANSPORTATION  
 0204 0207 1101 3401  
 BT #TRANSPORTATION  
 RT AIR CARGO  
 AIR TRAFFIC  
 COMPOUND HELICOPTERS  
 NATIONAL AVIATION SYSTEM  
 RAPID TRANSIT SYSTEMS  
 SHORT HAUL AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 AIRBORNE EQUIPMENT  
 0202 0203 1402  
 NT AIRBORNE/SPACEBORNE COMPUTERS  
 BT #ONBOARD EQUIPMENT

## AIRCRAFT

RT AIRCRAFT COMMUNICATION  
 AIRCRAFT EQUIPMENT  
 AUTOMATIC LANDING CONTROL  
 AVIONICS  
 ELECTRIC EQUIPMENT  
 EQUIPMENT  
 #FLIGHT INSTRUMENTS  
 HYDRAULIC EQUIPMENT  
 MAP MATCHING GUIDANCE  
 MATTS (SYSTEMS)  
 #RADAR EQUIPMENT  
 #RADIO EQUIPMENT  
 AIRBORNE INFECTION  
 0401  
 BT #DISEASES  
 INFECTIOUS DISEASES  
 RT AEROBIOLOGY  
 PARASITIC DISEASES  
 AIRBORNE RANGE AND ORBIT DETERMINATION  
 2102 2104  
 UP AROD (RANGE-ORBIT DETERMINATION)  
 BT RANGEFINDING  
 RT MEASUREMENT  
 #ORBITS  
 AIRBORNE TERRAIN ANALYSIS  
 USE TERRAIN ANALYSIS  
 AIRBORNE/SPACEBORNE COMPUTERS  
 0801  
 BT AIRBORNE EQUIPMENT  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 #ONBOARD EQUIPMENT  
 SPACECRAFT ELECTRONIC EQUIPMENT  
 RT #DATA PROCESSING  
 #SPACECRAFT COMPONENTS  
 AIRCRAFT  
 0201  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP AERODYNAMIC VEHICLES  
 RT A-37 AIRCRAFT  
 A-300 AIRCRAFT  
 AERODYNAMICS  
 AERONAUTICAL ENGINEERING  
 AEROSPACE ENGINEERING  
 AEROSPACE INDUSTRY  
 AEROSPACE VEHICLES  
 AEROSPACEPLANES  
 #AIRCRAFT INSTRUMENTS  
 AIRSHIPS  
 AMPHIBIOUS AIRCRAFT  
 ANTONOV AIRCRAFT  
 ASRO AIRCRAFT  
 ATTACK AIRCRAFT  
 #BAC AIRCRAFT  
 BALLOONS  
 BEAGLE AIRCRAFT  
 BEECHCRAFT AIRCRAFT  
 BELL AIRCRAFT  
 BOEING 747 AIRCRAFT  
 BOEING 7207 AIRCRAFT  
 BOLKOW AIRCRAFT  
 BOOSTGLIDE VEHICLES  
 BREGUET AIRCRAFT  
 C-5 AIRCRAFT  
 C-9 AIRCRAFT  
 C-119 AIRCRAFT  
 C-121 AIRCRAFT  
 CANADAIR AIRCRAFT  
 CARGO AIRCRAFT  
 CESSNA AIRCRAFT  
 CHANCE-VOUGHT AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 COMPOUND HELICOPTERS  
 CURTISS-WRIGHT AIRCRAFT  
 DASSAULT AIRCRAFT  
 DE HAVILLAND AIRCRAFT  
 DINFIA AIRCRAFT  
 DORNIER AIRCRAFT  
 DOUGLAS AIRCRAFT  
 EARTH RESOURCES SURVEY AIRCRAFT  
 ENGLISH ELECTRIC AIRCRAFT  
 ENSTROM AIRCRAFT  
 EWR AIRCRAFT  
 F-15 AIRCRAFT  
 FAIRCHILD-HILLER AIRCRAFT  
 FAIREY AIRCRAFT  
 FIAT AIRCRAFT  
 FIREBEE 2 TARGET DRONE AIRCRAFT  
 FLIGHT TEST VEHICLES  
 FLYING PLATFORMS

# AIRCRAFT ACCIDENT INVESTIGATION

FOKKER AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 #GENERAL DYNAMICS AIRCRAFT  
 #GLIDERS  
 GROUND EFFECT MACHINES  
 GRUMMAN AIRCRAFT  
 GYRODYNE AIRCRAFT  
 H-53 HELICOPTER  
 H- 54 HELICOPTER  
 HAMBURGER AIRCRAFT  
 HANDLEY PAGE AIRCRAFT  
 HAWKER SIDDELEY AIRCRAFT  
 HEINKEL AIRCRAFT  
 HELICOPTERS  
 HELIO AIRCRAFT  
 HILLER AIRCRAFT  
 HUGHES AIRCRAFT  
 HYPERSONIC AIRCRAFT  
 ILYUSHIN AIRCRAFT  
 JAGUAR AIRCRAFT  
 #JET AIRCRAFT  
 JETSTREAM AIRCRAFT  
 KAMAN AIRCRAFT  
 KAWASAKI AIRCRAFT  
 LEAR JET AIRCRAFT  
 LIFTING REENTRY VEHICLES  
 LIGHT AIRCRAFT  
 LIGHT INTRATHEATER TRANSPORT  
 LING-TEMCO-VOUGHT AIRCRAFT  
 LOCKHEED AIRCRAFT  
 MARTIN AIRCRAFT  
 MCDONNELL AIRCRAFT  
 MIL AIRCRAFT  
 MONOPLANES  
 MULTIENGINE VEHICLES  
 NAVION AIRCRAFT  
 NIHON AIRCRAFT  
 NORD AIRCRAFT  
 NORTH AMERICAN AIRCRAFT  
 NORTHROP AIRCRAFT  
 NUCLEAR PROPELLED AIRCRAFT  
 OMNIPOL AIRCRAFT  
 #ONBOARD EQUIPMENT  
 PASSENGER AIRCRAFT  
 PIAGGIO AIRCRAFT  
 PIASECKI AIRCRAFT  
 POTEZ AIRCRAFT  
 #PROPULSION  
 REPUBLIC AIRCRAFT  
 RESEARCH AIRCRAFT  
 BHEIN AIRCRAFT  
 ROCKET PLANES  
 ROTARY WING AIRCRAFT  
 ROTORCRAFT AIRCRAFT  
 RYAN AIRCRAFT  
 SAAB AIRCRAFT  
 SCHLEICHER AIRCRAFT  
 SHORT AND HARLAND AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 SIAT AIRCRAFT  
 SIEBEL AIRCRAFT  
 SIKORSKY AIRCRAFT  
 SNOW AIRCRAFT  
 #SUD AVIATION AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 SWING TAIL ASSEMBLIES  
 TAILLESS AIRCRAFT  
 TANDEN WING AIRCRAFT  
 TANKER AIRCRAFT  
 TERRAIN FOLLOWING AIRCRAFT  
 TEST VEHICLES  
 TRAINING AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TU-144 AIRCRAFT  
 TUPOLEV AIRCRAFT  
 UNIDENTIFIED FLYING OBJECTS  
 US-2A AIRCRAFT  
 UTILITY AIRCRAFT  
 #V/STOL AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT  
 WESER AIRCRAFT  
 WESTLAND AIRCRAFT  
 X-24 AIRCRAFT  
 XV-11A AIRCRAFT  
 YAK 40 AIRCRAFT  
 AIRCRAFT ACCIDENT INVESTIGATION  
 0203 0502 0506 0508  
 BT ACCIDENT INVESTIGATION  
 #INVESTIGATION  
 RT AIRCRAFT ACCIDENTS

AIRCRAFT ACCIDENTS  
 0203 2101  
 BT ACCIDENTS  
 RT AIRCRAFT ACCIDENT INVESTIGATION  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY  
 COLLISIONS  
 CRASH LANDING  
 #CRASHES  
 DITCHING (LANDING)  
 FLIGHT HAZARDS  
 HUMAN FACTORS ENGINEERING  
 MALFUNCTIONS  
 MIDAIR COLLISIONS  
 PILOT ERROR  
 WEATHER  
 AIRCRAFT ANTENNAS  
 0202 0901  
 BT ANTENNAS  
 #CONDUCTORS  
 RT LOOP ANTENNAS  
 MICROWAVE ANTENNAS  
 MISSILE ANTENNAS  
 PROTOBERANCES  
 RADAR ANTENNAS  
 RADIO ANTENNAS  
 AIRCRAFT APPROACH INSTRUMENTS  
 USE APPROACH INDICATORS  
 AIRCRAFT APPROACH SPACING  
 0203  
 BT SPACING  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT LANDING  
 AIRSPACE  
 APPROACH  
 APPROACH CONTROL  
 COLLISION AVOIDANCE  
 GLIDE PATHS  
 #GROUND BASED CONTROL  
 INSTRUMENT APPROACH  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 NATIONAL AVIATION SYSTEM  
 AIRCRAFT BASES  
 USE MILITARY AIR FACILITIES  
 AIRCRAFT BRAKES  
 0202 0203 0208  
 NT LEADING EDGE SLATS  
 SPLIT FLAPS  
 TRAILING-EDGE FLAPS  
 WING FLAPS  
 BT #BRAKES (FOR ARRESTING MOTION)  
 RT AERODYNAMIC BRAKES  
 ANTISKID DEVICES  
 BALLUTES  
 DRAG CHUTES  
 #DRAG DEVICES  
 THRUST REVERSAL  
 TOWED BODIES  
 WHEEL BRAKES  
 AIRCRAFT BREATHING APPARATUS  
 USE BREATHING APPARATUS  
 AIRCRAFT CABINS  
 USE AIRCRAFT COMPARTMENTS  
 AIRCRAFT CARRIERS  
 3401  
 BT SHIPS  
 #SURFACE VEHICLES  
 #WATER VEHICLES  
 RT AIRCRAFT LAUNCHING DEVICES  
 ARRESTING GEAR  
 CARRIERS  
 MILITARY AIR FACILITIES  
 MILITARY AIRCRAFT  
 MILITARY VEHICLES  
 NUCLEAR POWERED SHIPS  
 AIRCRAFT COMMUNICATION  
 0203 0702 1402 2101  
 BT #COMMUNICATING  
 #TELECOMMUNICATION  
 RT AIR TRAFFIC CONTROL  
 AIRBORNE EQUIPMENT  
 APPROACH CONTROL  
 AVIONICS  
 GROUND-AIR-GROUND COMMUNICATIONS  
 RADAR BEACONS  
 RADIO COMMUNICATION  
 WIRELESS COMMUNICATIONS  
 AIRCRAFT COMPARTMENTS  
 0202 0506  
 UP AIRCRAFT CABINS  
 BT #COMPARTMENTS

# NASA THESAURUS (ALPHABETICAL LISTING)

RT BAYS (STRUCTURAL UNITS)  
 CABIN ATMOSPHERES  
 CABINS  
 COCKPITS  
 GONDOLAS  
 PRESSURIZED CABINS  
 WINDSHIELDS  
 AIRCRAFT CONFIGURATIONS  
 0102 0201 3203  
 UP FIXED-WING AIRCRAFT  
 RT A-37 AIRCRAFT  
 AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT MODELS  
 AIRCRAFT STRUCTURES  
 COMPOUND HELICOPTERS  
 FLARED BODIES  
 FLIGHT VEHICLES  
 LOW WING AIRCRAFT  
 MISSILE CONFIGURATIONS  
 PROPULSION SYSTEM CONFIGURATIONS  
 SPACECRAFT CONFIGURATIONS  
 WING ROOTS  
 AIRCRAFT CONSTRUCTION  
 USE AIRCRAFT STRUCTURES  
 AIRCRAFT CONTROL  
 0104 0202 0203 1402  
 UP FLAP CONTROL  
 NT HELICOPTER CONTROL  
 RT AIRCRAFT GUIDANCE  
 AIRCRAFT PERFORMANCE  
 AIRCRAFT RELIABILITY  
 AIRCRAFT STABILITY  
 #ATTITUDE CONTROL  
 #AUTOMATIC CONTROL  
 AUTOMATIC FLIGHT CONTROL  
 CONTROL  
 CONTROL EQUIPMENT  
 CONTROL SIMULATION  
 CONTROL STABILITY  
 CONTROLLABILITY  
 DIRECTIONAL CONTROL  
 ENGINE CONTROL  
 #FLIGHT CONTROL  
 #FLIGHT INSTRUMENTS  
 FLY BY WIRE CONTROL  
 #GROUND BASED CONTROL  
 LATERAL CONTROL  
 LONGITUDINAL CONTROL  
 MANEUVERABILITY  
 MANUAL CONTROL  
 RADIO CONTROL  
 REMOTE CONTROL  
 TURBOJET ENGINE CONTROL  
 VISUAL CONTROL  
 AIRCRAFT DESIGN  
 0201 3404  
 NT HELICOPTER DESIGN  
 AERODYNAMIC CONFIGURATIONS  
 AERONAUTICAL ENGINEERING  
 AIRCRAFT INDUSTRY  
 AIRCRAFT MODELS  
 AIRCRAFT PRODUCTION  
 AIRCRAFT STRUCTURES  
 #AIRFOILS  
 COMPOUND HELICOPTERS  
 COMPUTERIZED DESIGN  
 DESIGN  
 ENGINE DESIGN  
 FLIGHT TESTS  
 LOFTING  
 MISSILE DESIGN  
 PANAVIA MILITARY AIRCRAFT  
 PRODUCT DEVELOPMENT  
 SHORT HAUL AIRCRAFT  
 STREAMLINING  
 STRUCTURAL DESIGN  
 SYSTEMS ENGINEERING  
 VORTEX SHEETS  
 AIRCRAFT DETECTION  
 0705 1109 1404 3401  
 BT #DETECTION  
 RT DETECTORS  
 #TRACKING (POSITION)  
 AIRCRAFT ENGINES  
 0202 2701 2801 2805  
 UP AIRCRAFT POWER SOURCES  
 NT J-44 ENGINE  
 J-52 ENGINE  
 J-84 ENGINE  
 J-97 ENGINE  
 T-34 ENGINE  
 T-38 ENGINE

# NASA THESAURUS (ALPHABETICAL LISTING)

T-55 ENGINE  
T-63 ENGINE  
T-76 ENGINE  
T-78 ENGINE  
TP-30 ENGINE  
RT AIRCRAFT PARTS  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
JET PROPULSION  
NUCLEAR PROPULSION  
PISTON ENGINES  
POWER SUPPLIES  
PTL-6 ENGINE  
ROCKET ENGINES  
T-58 ENGINE  
T-58-G2-88 ENGINE  
TURBINE ENGINES  
WANKEL ENGINES  
AIRCRAFT EQUIPMENT  
0202 0203 1402  
NT AIRCRAFT HYDRAULIC SYSTEMS  
AIRCRAFT LIGHTS  
AIRCRAFT TIRES  
BOMBING EQUIPMENT  
EJECTION SEATS  
BT #ONBOARD EQUIPMENT  
BT AIRBORNE EQUIPMENT  
AUTOMATIC LANDING CONTROL  
AUTOMATIC PILOTS  
AVIONICS  
#DISPLAY DEVICES  
#FLIGHT INSTRUMENTS  
#LANDING AIDS  
LANDING INSTRUMENTS  
#NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
RADIO DIRECTION FINDERS  
AIRCRAFT EXHAUST  
USE EXHAUST GASES  
AIRCRAFT FUEL SYSTEMS  
0303 2701  
BT FUEL SYSTEMS  
RT FUEL CONTROL  
FUEL PUMPS  
FUEL TANK PRESSURIZATION  
FUEL TANKS  
FUEL VALVES  
AIRCRAFT FUELS  
2701  
BT CHEMICAL FUELS  
#FUELS  
RT HYDROCARBON FUELS  
JET ENGINE FUELS  
LIQUID ROCKET PROPELLANTS  
MONOPROPELLANTS  
SLURRY PROPELLANTS  
SOLID PROPELLANTS  
TANKER AIRCRAFT  
AIRCRAFT GUIDANCE  
2101  
BT #GUIDANCE (MOTION)  
RT AIR TRAFFIC CONTROL  
AIRCRAFT CONTROL  
APPROACH CONTROL  
COLLISION AVOIDANCE  
INDICATORS  
INSTRUMENT LANDING SYSTEMS  
RADAR APPROACH CONTROL  
RADAR NAVIGATION  
RADARSCOPES  
RADIO NAVIGATION  
AIRCRAFT HAZARDS  
0203 2101  
BT #HAZARDS  
RT AIR TRAFFIC  
AIRCRAFT ACCIDENTS  
AIRCRAFT NOISE  
AIRCRAFT SAFETY  
BIRDS  
COLLISIONS  
CRASH LANDING  
#CRASHES  
FLIGHT HAZARDS  
FLIGHT SAFETY  
FOREIGN BODIES  
HUMAN FACTORS ENGINEERING  
MALFUNCTIONS  
MIDAIR COLLISIONS  
NOISE (SOUND)  
OPERATIONAL HAZARDS  
REFUELING

TOXIC HAZARDS  
WEATHER  
AIRCRAFT HYDRAULIC SYSTEMS  
0202 0203 0303  
BT AIRCRAFT EQUIPMENT  
HYDRAULIC EQUIPMENT  
RT ACTUATORS  
SERVOCONTROL  
SERVOMECHANISMS  
AIRCRAFT INDUSTRY  
0201 3404  
BT AEROSPACE INDUSTRY  
#INDUSTRIES  
RT AERONAUTICAL ENGINEERING  
AIRCRAFT DESIGN  
AIRCRAFT PRODUCTION  
AIRCRAFT STRUCTURES  
AIRPLANE PRODUCTION COSTS  
#AIRCRAFT INSTRUMENTS  
1402  
NT ALTIMETERS  
ANEMOMETERS  
APPROACH INDICATORS  
ATTITUDE INDICATORS  
AUTOMATIC PILOTS  
COMPASSES  
FLIGHT RECORDERS  
GYRO HORIZONS  
GYROCOMPASSES  
HOT-WIRE ANEMOMETERS  
MAGNETIC COMPASSES  
PLAN POSITION INDICATORS  
POSITION INDICATORS  
RADIO ALTIMETERS  
RADIO DIRECTION FINDERS  
RATE OF CLIMB INDICATORS  
SOLAR COMPASSES  
SONIC ANEMOMETERS  
SPACECRAFT POSITION INDICATORS  
SPEED INDICATORS  
TACHOMETERS  
RT AIRCRAFT  
AIRCRAFT LANDING  
AUTOMATIC FLIGHT CONTROL  
AVIONICS  
#DISPLAY DEVICES  
#FLIGHT CONTROL  
#FLIGHT INSTRUMENTS  
FLIGHT PATHS  
FLIGHT TEST INSTRUMENTS  
INDICATING INSTRUMENTS  
INSTRUMENT APPROACH  
INSTRUMENT LANDING SYSTEMS  
INSTRUMENTS  
#LANDING AIDS  
LANDING INSTRUMENTS  
MEASUREMENT  
#MEASURING INSTRUMENTS  
MONITORS  
#NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
#RADAR  
#RECORDING INSTRUMENTS  
AIRCRAFT LANDING  
0203 1101  
NT CRASH LANDING  
DITCHING (LANDING)  
SKID LANDINGS  
BT #LANDING  
RT AIRCRAFT APPROACH SPACING  
#AIRCRAFT INSTRUMENTS  
AIRCRAFT PERFORMANCE  
BLIND LANDING  
CEILINGS (METEOROLOGY)  
CONTROLLABILITY  
GLIDE LANDINGS  
INSTRUMENT LANDING SYSTEMS  
#LANDING AIDS  
LANDING RADAR  
LOW VISIBILITY  
RUNWAY ALIGNMENT  
SOFT LANDING  
SPACECRAFT LANDING  
TAKEOFF  
TOUCHDOWN  
VERTICAL LANDING  
WATER LANDING  
AIRCRAFT LANDING INSTRUMENTS  
USE LANDING INSTRUMENTS  
AIRCRAFT LAUNCHING DEVICES  
0202 0203  
UP TAKEOFF SYSTEMS

## AIRCRAFT PRODUCTION

NT JATO ENGINES  
ROCKET ENGINE 2KS-36250  
ROCKET ENGINE 15KS-25000  
BT #LAUNCHERS  
RT AIRCRAFT CARRIERS  
CATAPULTS  
AIRCRAFT LIGHTS  
0202 0203  
BT AIRCRAFT EQUIPMENT  
#LIGHTING EQUIPMENT  
LUMINAIRES  
RT BEACONS  
AIRCRAFT MAINTENANCE  
1101  
BT MAINTENANCE  
RT CHECKOUT  
GROUND SUPPORT EQUIPMENT  
LOGISTICS  
AIRCRAFT MODELS  
0201 1107 3404  
BT #MODELS  
RT AIRCRAFT CONFIGURATIONS  
AIRCRAFT DESIGN  
DYNAMIC MODELS  
MATHEMATICAL MODELS  
SCALE MODELS  
SEMI-SPAN MODELS  
SPACECRAFT MODELS  
WIND TUNNEL MODELS  
AIRCRAFT NOISE  
0203 2301  
NT JET AIRCRAFT NOISE  
SONIC BOOMS  
BT #ELASTIC WAVES  
NOISE (SOUND)  
SOUND WAVES  
RT AERODYNAMIC NOISE  
AIRCRAFT HAZARDS  
ENGINE NOISE  
#JET AIRCRAFT  
MUFFLERS  
NOISE INTENSITY  
NOISE REDUCTION  
AIRCRAFT PARTS  
0202  
RT AIRCRAFT ENGINES  
AIRCRAFT STRUCTURES  
#AIRFOILS  
AIRFRAMES  
#CONTROL SURFACES  
FUSELAGES  
LANDING GEAR  
PROTEBERANCES  
TAIL ASSEMBLIES  
WINGS  
AIRCRAFT PERFORMANCE  
0101 0201 1505  
NT HELICOPTER PERFORMANCE  
RT AERODYNAMIC STALLING  
AIRCRAFT CONTROL  
AIRCRAFT LANDING  
AIRCRAFT RELIABILITY  
AIRCRAFT SPECIFICATIONS  
AIRCRAFT STABILITY  
AIRSPEED  
CONTROLLABILITY  
DISTANCE  
FLIGHT CHARACTERISTICS  
MANEUVERABILITY  
MINIMUM DRAG  
PAYLOADS  
PERFORMANCE  
PILOT PERFORMANCE  
SPECIFICATIONS  
TAKEOFF RUNS  
AIRCRAFT PILOTS  
0201 0502 0506  
UP AVIATORS  
COPILOTS  
JET PILOTS  
NT TEST PILOTS  
BT FLYING PERSONNEL  
OPERATORS (PERSONNEL)  
#PERSONNEL  
PILOTS (PERSONNEL)  
RT FLIGHT CREWS  
PILOTS  
AIRCRAFT POWER SOURCES  
USE AIRCRAFT ENGINES  
AIRCRAFT PRODUCTION  
0201 3404  
UP FUSELAGE MOUNTING

# AIRCRAFT PROTUBERANCES

BT COSTS  
RT AIRCRAFT DESIGN  
AIRCRAFT INDUSTRY  
EQUIPMENT SPECIFICATIONS  
PRODUCT DEVELOPMENT  
PRODUCTION  
PRODUCTION ENGINEERING  
AIRCRAFT PROTUBERANCES  
USE PROTUBERANCES  
AIRCRAFT RELIABILITY  
0201 1505  
UP AIRWORTHINESS  
AIRWORTHINESS REQUIREMENTS  
BT RELIABILITY  
RT AIRCRAFT CONTROL  
AIRCRAFT PERFORMANCE  
AIRCRAFT SAFETY  
AIRCRAFT SPECIFICATIONS  
AIRCRAFT STABILITY  
CERTIFICATION  
CIRCUIT RELIABILITY  
COMPONENT RELIABILITY  
HELICOPTER PERFORMANCE  
QUALITY CONTROL  
STRUCTURAL RELIABILITY  
VULNERABILITY  
AIRCRAFT SAFETY  
0203 1101 1402 2101  
BT SAFETY  
RT ABORT APPARATUS  
AIR PIRACY  
AIR TRAFFIC CONTROL  
AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT RELIABILITY  
ARRESTING GEAR  
COLLISION AVOIDANCE  
COLLISIONS  
CRASH LANDING  
#CRASHES  
EJECTION SEATS  
FLIGHT HAZARDS  
FLIGHT SAFETY  
#LANDING AIDS  
LANDING RADAR  
MIDAIR COLLISIONS  
#NAVIGATION AIDS  
SAFETY DEVICES  
SOLAR COMPASSES  
WEATHER  
WHEEL BRAKES  
AIRCRAFT SPECIFICATIONS  
0201 3404  
BT SPECIFICATIONS  
RT AIRCRAFT PERFORMANCE  
AIRCRAFT RELIABILITY  
AIRSPEED  
CEILING (AIRCRAFT CAPABILITY)  
CONTROLLABILITY  
DISTANCE  
FLIGHT CHARACTERISTICS  
PAYLOADS  
AIRCRAFT STABILITY  
0101 0104  
NT HOVERING STABILITY  
BT #DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
#STABILITY  
RT AERODYNAMIC BALANCE  
AERODYNAMIC STABILITY  
AIRCRAFT CONTROL  
AIRCRAFT PERFORMANCE  
AIRCRAFT RELIABILITY  
ATTITUDE STABILITY  
BUFFETING  
CONTROL STABILITY  
CONTROLLABILITY  
COUNTERBALANCES  
DIRECTIONAL STABILITY  
HORIZONTAL FLIGHT  
LATERAL STABILITY  
LIQUID SLOSHING  
LONGITUDINAL STABILITY  
LOW SPEED STABILITY  
STATIC STABILITY  
STRUCTURAL STABILITY  
TURNING FLIGHT  
WIND TUNNEL STABILITY TESTS  
AIRCRAFT STRUCTURES  
0102 0201 3202 3404  
UP AIRCRAFT CONSTRUCTION

WOOD AIRCRAFT CONSTRUCTION  
BT AIRFRAMES  
PUSELAGES  
PLASTIC AIRCRAFT STRUCTURES  
RT AEROELASTICITY  
AIRCRAFT CONFIGURATIONS  
AIRCRAFT DESIGN  
AIRCRAFT INDUSTRY  
AIRCRAFT PARTS  
#AIRFOILS  
CANARD CONFIGURATIONS  
CANOPIES  
#CONTROL SURFACES  
PAIRINGS  
HULLS (STRUCTURES)  
PYLON MOUNTING  
#SHELLS (STRUCTURAL FORMS)  
SPACECRAFT STRUCTURES  
STREAMLINING  
STRUCTURES  
TAIL ASSEMBLIES  
WINGS  
AIRCRAFT TIRES  
0202  
BT AIRCRAFT EQUIPMENT  
TIRES  
RT LANDING GEAR  
VEHICLE WHEELS  
AIRCRAFT WAKES  
0101 1202 1203  
NT HELICOPTER WAKES  
PROPELLER SLIPSTREAMS  
SLIPSTREAMS  
BT #WAKES  
RT HYPERSONIC WAKES  
LAMINAR WAKES  
SUPERSONIC WAKES  
TURBULENT WAKES  
AIRCRAFTS  
USE FLIGHT CREWS  
AIRFIELD SURFACE MOVEMENTS  
1101 3202  
BT AIR CARGO  
AIRPORTS  
HANGARS  
MATERIALS HANDLING  
MOBILE LOUNGES  
RUNWAYS  
TAILING  
AIRFOIL CHARACTERISTICS  
USE #AIRFOILS  
AIRFOIL FENCES  
0102 0104  
BT #AIRFOILS  
RT BOUNDARY LAYER CONTROL  
FENCES  
VORTEX GENERATORS  
WINGS  
#AIRFOIL PROFILES  
0102 0104  
UP AERODYNAMIC CHORDS  
AIRFOIL SECTIONS  
AIRFOIL THICKNESS  
CLARK Y AIRFOIL  
NT WING PROFILES  
WING SPAN  
RT #AIRFOILS  
BLADE TIPS  
CROSS SECTIONS  
JOUKOWSKI TRANSFORMATION  
KUTTA-JOUKOWSKI CONDITION  
LIGHTHILL METHOD  
PROFILES  
STREAMLINING  
THEODORSEN TRANSFORMATION  
THICKNESS  
THICKNESS RATIO  
THIN AIRFOILS  
THIN WINGS  
TIPS  
WEDGES  
WING TIPS  
AIRFOIL SECTIONS  
USE #AIRFOIL PROFILES  
AIRFOIL THICKNESS  
USE #AIRFOIL PROFILES  
#AIRFOILS  
0102  
UP AIRFOIL CHARACTERISTICS  
NT AERIAL RUDDERS  
AILERONS  
AIRFOIL FENCES

# NASA THESAURUS (ALPHABETICAL LISTING)

ARROW WINGS  
CAMBERED WINGS  
CARET WINGS  
CRUCIFORM WINGS  
DELTA WINGS  
ELEVATORS (CONTROL SURFACES)  
ELEVONS  
FIXED WINGS  
FLAPS (CONTROL SURFACES)  
FLEXIBLE WINGS  
HORIZONTAL TAIL SURFACES  
INFINITE SPAN WINGS  
JET FLAPS  
LAMINAR FLOW AIRFOILS  
LEADING EDGE SLATS  
LIFTING ROTORS  
LOW ASPECT RATIO WINGS  
PARAWINGS  
PROPELLER BLADES  
RECTANGULAR WINGS  
RIGID ROTORS  
RIGID WINGS  
RING WINGS  
ROTARY WINGS  
SLENDER WINGS  
SPLIT FLAPS  
SPOILER SLOT AILERONS  
SPOILERS  
SUPERCRITICAL WINGS  
SUPERSONIC AIRFOILS  
SWEEP FORWARD WINGS  
SWEEP WINGS  
SWEEPBACK WINGS  
TABS (CONTROL SURFACES)  
THIN AIRFOILS  
THIN WINGS  
TILTING ROTORS  
TIP DRIVEN ROTORS  
TRAILING-EDGE FLAPS  
TRAPEZOIDAL WINGS  
TWISTED WINGS  
UNCAMBERED WINGS  
UNSWEPT WINGS  
VARIABLE SWEEP WINGS  
WING FLAPS  
WINGS  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
AIRCRAFT DESIGN  
AIRCRAFT PARTS  
AIRCRAFT STRUCTURES  
#AIRFOIL PROFILES  
ASPECT RATIO  
BLADES  
CAMBER  
#CONTROL SURFACES  
DEICERS  
DEICING  
FINS  
FOILS  
FOILS (MATERIALS)  
GUIDE VANES  
HYDROFOILS  
JET VANES  
LEADING EDGES  
LIFT  
#LIFTING BODIES  
LIGHTHILL METHOD  
MONOPLANES  
ROTOR BLADES (TURBOMACHINERY)  
ROTORS  
RUDDERS  
STABILIZERS (FLUID DYNAMICS)  
STREAMLINED BODIES  
STREAMLINING  
TAIL ASSEMBLIES  
THICKNESS RATIO  
TRAILING EDGES  
TURBOMACHINE BLADES  
#VANES  
WEDGES  
AIRFRAME MATERIALS  
1704 1805 1809  
RT AIRFRAMES  
#COMPOSITE MATERIALS  
CONSTRUCTION MATERIALS  
MATERIALS  
STRUCTURAL DESIGN  
#STRUCTURAL MEMBERS  
AIRFRAMES  
0102 3110 3202  
BT AIRCRAFT STRUCTURES

# NASA TREASURY (ALPHABETICAL LISTING)

**FRAMES**  
**RT** AIRCRAFT PARTS  
 AIRFRAME MATERIALS  
 BAYS (STRUCTURAL UNITS)  
 CANOPIES  
 #CONTROL SURFACES  
 FINS  
 FUSELAGES  
 LANDING GEAR  
 MISSILE BODIES  
 MISSILE STRUCTURES  
 NACELLES  
 PROTECTORANCES  
 TAIL ASSEMBLIES  
 WINGS  
**AIRGEEF AIRCRAFT**  
 USE VZ-8 AIRCRAFT  
**AIRGLOW**  
 0605 1302  
**UF** ATMOSPHERIC EMISSION  
 NIGHT AIRGLOW  
**NT** GEOCORONAL EMISSIONS  
 NIGHTGLOW  
 TWILIGHT GLOW  
**BT** #ATMOSPHERIC RADIATION  
 #ELECTROMAGNETIC RADIATION  
 LIGHT (VISIBLE RADIATION)  
 SKY RADIATION  
**RT** AERONOMY  
 ATMOSPHERIC IONIZATION  
 AURORAS  
 CHEMILUMINESCENCE  
 DAYGLOW  
 #EARTH ATMOSPHERE  
 EMISSION  
 FABRY-PEROT SPECTROMETERS  
 LIGHT EMISSION  
 NIGHT SKY  
 OXYGEN SPECTRA  
 RADIATIVE RECOMBINATION  
 RAYLEIGH SCATTERING  
 SKY BRIGHTNESS  
**AIRLINE OPERATIONS**  
 0204  
**RT** AIR CARGO  
 AIR TRAFFIC  
 CIVIL AVIATION  
 #COMMERCIAL AIRCRAFT  
 OPERATIONS  
 PASSENGERS  
 SHORT HAUL AIRCRAFT  
**AIRLINERS**  
 USE #COMMERCIAL AIRCRAFT  
 PASSENGER AIRCRAFT  
**AIRLOCK MODULES**  
 3103  
**BT** #MODULES  
**RT** APOLLO APPLICATIONS PROGRAM  
 MULTIPLE DOCKING ADAPTERS  
 SATURN 1 WORKSHOP  
 SATURN 5 WORKSHOP  
 SATURN WORKSHOPS  
 SKILAB PROGRAM  
**AIRPLANE PRODUCTION COSTS**  
 3402 3404 0201 3403  
**BT** COSTS  
**RT** AIRCRAFT INDUSTRY  
 COST ESTIMATES  
 ENGINEERING  
 PRODUCTION ENGINEERING  
**AIRPORT BEACONS**  
 1101 1102 2104  
**BT** BEACONS  
 #LANDING AIDS  
 #NAVIGATION AIDS  
**RT** AIRPORT LIGHTS  
 RADIO BEACONS  
**AIRPORT LIGHTS**  
 1101  
**NT** RUNWAY LIGHTS  
**BT** #LANDING AIDS  
 #LIGHTING EQUIPMENT  
 LUMINAIRES  
**RT** AIRPORT BEACONS  
 SEARCHLIGHTS  
**AIRPORT MOBILE LOUNGES**  
 USE MOBILE LOUNGES  
**AIRPORT PLANNING**  
 1101 3404  
**BT** PLANNING  
**RT** GROUND SUPPORT EQUIPMENT  
 HELIPORTS

**LAND USE**  
**#SITES**  
**AIRPORT SURFACE DETECTION EQUIPMENT**  
 1101 1102  
**UF** ASDE  
**RT** AIR TRAFFIC CONTROL  
 EQUIPMENT  
 #GROUND BASED CONTROL  
 #RADAR EQUIPMENT  
 SEARCH RADAR  
 SURVEILLANCE RADAR  
**AIRPORT TOWERS**  
 0701 2101 2102 2104  
**BT** TOWERS  
**RT** AIR TRAFFIC CONTROL  
 AIRPORTS  
 #GROUND BASED CONTROL  
 HELIPORTS  
 #LANDING AIDS  
 #TRAFFIC CONTROL  
**AIRPORTS**  
 1101  
**NT** HELIPORTS  
**RT** AERONAUTICS  
 AIR TRAFFIC CONTROL  
 AIRFIELD SURFACE MOVEMENTS  
 AIRPORT TOWERS  
 FACILITIES  
 HANGARS  
 INSTRUMENT LANDING SYSTEMS  
 #LANDING AIDS  
 MILITARY AIR FACILITIES  
 MOBILE LOUNGES  
 MOORING  
 #NAVIGATION AIDS  
 PORTS  
 RUNWAYS  
 STRIP  
**AIRSHIPS**  
 0205 0207  
**UF** AEROSTATS  
 DIRIGIBLES  
**RT** AIRCRAFT  
 BALLOONS  
 GONDOLAS  
 INFLATABLE STRUCTURES  
 MILITARY AIRCRAFT  
**AIRSPACE**  
 1301 1302  
**RT** AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIRCRAFT APPROACH SPACING  
 #BOUNDARIES  
 COLLISION AVOIDANCE  
 FLIGHT PATHS  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
**AIRSPEED**  
 0101 0201  
**BT** #RATES (PER TIME)  
 VELOCITY  
**RT** AERODYNAMIC STALLING  
 AIRCRAFT PERFORMANCE  
 AIRCRAFT SPECIFICATIONS  
 BOUNDARY LAYER SEPARATION  
 FLIGHT CHARACTERISTICS  
 GROUND SPEED  
 HIGH SPEED  
 LOW SPEED  
 MACH NUMBER  
 WIND VELOCITY  
**AIRWORTHINESS**  
 USE AIRCRAFT RELIABILITY  
**AIRWORTHINESS REQUIREMENTS**  
 USE AIRCRAFT RELIABILITY  
**AIRY FUNCTION**  
 1902 1903 1905 3203  
**BT** #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
**RT** CYLINDRICAL BODIES  
 DIFFERENTIAL EQUATIONS  
 ELASTIC PROPERTIES  
 HARMONIC FUNCTIONS  
 POISSON RATIO  
 STRESS ANALYSIS  
**AJ-10 ENGINE**  
 2806 2808  
**BT** BOOSTER ROCKET ENGINES  
 #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES

**ALDOSTERONE**  
**RT** TARTAR MISSILE  
**AJ-1000 ENGINE**  
 USE M-1 ENGINE  
**AKERMANITE**  
 1805 1806  
**BT** ALKALINE EARTH OXIDES  
 CALCIUM CARBONATES  
 #CALCIUM COMPOUNDS  
 CALCIUM OXIDES  
 #CARBON COMPOUNDS  
 CARBONATES  
 #CHALCOGENIDES  
 METAL OXIDES  
 #MINERALS  
 OXIDES  
**ALABAMA**  
 1305  
**BT** UNITED STATES OF AMERICA  
**ALASIS METEORITE**  
 3005  
**BT** CARBONACEOUS METEORITES  
 #CELESTIAL BODIES  
 CHONDRITES  
 METEORITES  
 STONY METEORITES  
**ALANINE**  
 0403 1808  
**BT** CARBOXYLIC ACIDS  
**ALARM PROJECT**  
 0201 3401  
**UF** AUTOMATIC LIGHT AIRCRAFT READINESS  
 MONITOR  
**BT** #PROGRAMS  
 PROJECTS  
**RT** MONITORS  
**ALARMS**  
 USE #WARNING SYSTEMS  
**ALASKA**  
 1305  
**BT** UNITED STATES OF AMERICA  
**ALBEDO**  
 2402  
**NT** COSMIC RAY ALBEDO  
 EARTH ALBEDO  
**RT** ABSORPTANCE  
 COSMIC RAYS  
 OPTICAL PROPERTIES  
 PLANETARY RADIATION  
 REFLECTANCE  
 SOLAR RADIATION  
 #SURFACE PROPERTIES  
**ALBINISM**  
 0402 0404  
**BT** #DISEASES  
**ALBUMINS**  
 0403 1808  
**NT** AVIDIN  
**BT** #PROTEINS  
**ALCOHOLS**  
 0403 0603 1808  
**NT** BISPHENOLS  
 CRESOLS  
 CYANURIC ACID  
 ETHYL ALCOHOL  
 GLYCOLS  
 ISOPROPYL ALCOHOL  
 METHYL ALCOHOLS  
 PHENOLS  
 PHLOROGLUCINOL  
 POLYVINYL ALCOHOL  
 THYMOL  
 TRIOLS  
**BT** #HYDROXYL COMPOUNDS  
**RT** #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 GLYCEROLS  
 THIOLS  
**ALDEHYDES**  
 0403 0603 1808  
**NT** ACETALDEHYDE  
 ACROLEINS  
 CHLORAL  
 FORMALDEHYDE  
**BT** #ALIPHATIC COMPOUNDS  
 PURFURYL ALCOHOL  
 RETINENE  
**ALDOLASE**  
 0403 1808  
**BT** ENZYMES  
**RT** MUSCLES  
**ALDOSTERONE**  
 0403 0404



## ALERTNESS

BT CORTICOSTEROIDS  
 #STEROIDS  
 RT ADRENAL METABOLISM  
 ALERTNESS  
 0408 0502  
 RT AROUSAL  
 ATTENTION  
 WAKEFULNESS  
 ALPVEN WAVES  
 USE MAGNETOHYDRODYNAMIC WAVES  
 ALGAE

0407 0409  
 NT ANABAENA  
 BLUE GREEN ALGAE  
 CHLORELLA  
 DUNALIELLA  
 MICROCYSTIS  
 NOSTOC  
 PORPHYRA  
 SCENEDESMUS  
 BT #PLANTS (BOTANY)  
 RT EUGLENA  
 LICHENS  
 PLANKTON  
 THERMOPHILES  
 THERMOPHILIC PLANTS

#ALGEBRA  
1902

NT ADJOINTS  
 AUTOMORPHISMS  
 BANACH SPACE  
 BINOMIAL THEOREM  
 BINOMIALS  
 CANONICAL FORMS  
 CUBIC EQUATIONS  
 CURRENT ALGEBRA  
 DETERMINANTS  
 DUFFING DIFFERENTIAL EQUATION  
 DYADICS  
 EIGENVALUES  
 EIGENVECTORS  
 GROUP THEORY  
 HERMITIAN POLYNOMIAL  
 HILBERT SPACE  
 HOMOMORPHISMS  
 JORDAN FORM  
 LIE GROUPS  
 LINEAR EQUATIONS  
 LINEAR TRANSFORMATIONS  
 MATRICES (MATHEMATICS)  
 MONGE-AMPERE EQUATION  
 MONOIDS  
 NONLINEAR EQUATIONS  
 POLYNOMIALS  
 QUADRATIC EQUATIONS  
 QUARTIC EQUATIONS  
 SPINOR GROUPS  
 STATE VECTORS  
 STOKES THEOREM (VECTOR CALCULUS)  
 STRESS TENSORS  
 SUBGROUPS  
 TENSORS  
 U SPIN SPACE  
 VECTOR SPACES  
 VECTORS (MATHEMATICS)  
 VORTICITY  
 RT #ANALYSIS (MATHEMATICS)  
 ANALYZING  
 BOOLEAN ALGEBRA  
 #COORDINATES  
 #FUNCTIONS (MATHEMATICS)  
 MATHEMATICS  
 SCHWARTZ INEQUALITY  
 SEMIEMPIRICAL EQUATIONS  
 SPACE  
 SUMS  
 UNIQUENESS THEOREM

ALGERIA  
1305

RT AFRICA  
 NATIONS

ALGOL  
0802

BT #LANGUAGES  
 MACHINE ORIENTED LANGUAGES  
 RT COMPUTER PROGRAMMING

ALGOL ENGINE  
2806 2808

BT BOOSTER ROCKET ENGINES  
 #ENGINES  
 ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES

RT BLUE SCOUT ROCKET VEHICLE  
 LITTLE JOE 2 LAUNCH VEHICLE  
 SCOUT LAUNCH VEHICLE

## ALGORITHMS

0802 1902  
 BT #MATHEMATICAL LOGIC  
 RT COMPUTER PROGRAMMING  
 #COMPUTER PROGRAMS  
 COMPUTER SYSTEMS PROGRAMS  
 COMPUTERIZED SIMULATION  
 NUMERICAL ANALYSIS  
 PARAMETERIZATION

## ALIGNMENT

3408  
 NT SELF ALIGNMENT  
 RT ADJUSTING  
 BEARING (DIRECTION)  
 CLEARANCES  
 COLLIMATION  
 CORRECTION  
 DIRECTIVITY  
 FITTING  
 INSTRUMENT ORIENTATION  
 ORIENTATION  
 POLARIZATION (SPIN ALIGNMENT)  
 POSITIONING

## #ALIPHATIC COMPOUNDS

1808

NT ACETALDEHYDE  
 ACETALS  
 ACETIC ACID  
 ACETONE  
 ACETYL COMPOUNDS  
 ACETYLACETONE  
 ACETYLENE  
 ACROLEINS  
 ACRYLATES  
 ACRYLIC ACID  
 ACRYLONITRILES  
 ADENINES  
 ADENOSINE DIPHOSPHATE (ADP)  
 ADENOSINE TRIPHOSPHATE (ATP)  
 ADENOSINES  
 ALKANES  
 ALKENES  
 ALKYL COMPOUNDS  
 ALKYLATES  
 ALKYLIDENE  
 ALKYNES  
 ALLYL COMPOUNDS  
 ALUMINUM ETHOXIDE  
 ANTHRAcene  
 ANTHRAQUINONES  
 BARIUM STEARATES  
 BUTADIENE  
 BUTANES  
 BUTENES  
 CAMPHOR  
 CARBANATES (TRADENAME)  
 CARBAMIDES  
 CARBON TETRACHLORIDE  
 CARBON TETRAFLUORIDE  
 CARBOXYLATES  
 CASTOR OIL  
 CELLULOSE  
 CERESIN  
 CETANE  
 CETYL COMPOUNDS  
 CHITIN  
 CHLORAL  
 CHLOROETHYLENE  
 CHLOROFORM  
 CHLOROPROMAZINE  
 CHOLINE  
 CITRIC ACID  
 COLCHICINE  
 CYANAMIDES  
 CYANOGEN  
 CYANURIC ACID  
 CYCLIC HYDROCARBONS  
 CYCLOBUTANE  
 CYCLOPROPANE  
 CYSTEINE  
 DEXTRANS  
 DIALLYL COMPOUNDS  
 DIBUTYL COMPOUNDS  
 DICHLORODIPHENYLTRICHLOROETHANE  
 DIHYDRAZINE  
 DIISOCYANATES  
 DIMERCAPROL  
 DIMETHYLHYDRAZINES  
 ETHANE

## NASA THESAURUS (ALPHABETICAL LISTING)

ETHOXY ETHYLENE  
 ETHYL ALCOHOL  
 ETHYLENE  
 ETHYLENE DIHYDRAZINE  
 ETHYLENEDIAMINE  
 ETHYLENEDIAMINETETRAACETIC ACIDS  
 FLUOROAMINES  
 FORMHYDROXAMIC ACID  
 FORMIC ACID  
 FORTISAN (TRADEMARK)  
 GALACTOKINASE  
 GALACTOSE  
 GLUCOSE  
 GLUCOSIDES  
 GLUTAMATES  
 GLUTAMIC ACID  
 GLUTAMINE  
 GLUTATHIONE  
 GLYCERIDES  
 GLYCEROLS  
 GLYCogens  
 GLICOLS  
 GUANETHIDINE  
 GUANIDINES  
 HEPTADIENE  
 HEPTANES  
 HEXADIENE  
 HEXAMETHYLENETETRAMINE  
 HEXENES  
 HEXOGENES (TRADEMARK)  
 HEXOKINASE  
 HEXOSES  
 HEXYL COMPOUNDS  
 HIPPURIC ACID  
 HYDRAZIDES  
 HYDRAZINE BORANE  
 HYDRAZINE NITROFORM  
 HYDRAZINE PERCHLORATES  
 HYDRAZINES  
 INOSITOLS  
 IODOACETIC ACID  
 ISOPROPYL ALCOHOL  
 ISOPROPYL COMPOUNDS  
 ISOPROPYL NITRATE  
 KETENES  
 KETONES  
 LACTATES  
 LACTIC ACID  
 LACTOSE  
 MALEATES  
 MANNITOL  
 MENTHOL  
 MEPROBAMATE  
 METHANE  
 METHYL ALCOHOLS  
 METHYL CHLOROSULFANES  
 METHYL COMPOUNDS  
 METHYL NITRATE  
 METHYLENE DIAMINE  
 METHYLHYDRAZINE  
 METHYLSISOCYANATOSILANE  
 MONOETHANOLAMINE (MEA)  
 MONOSACCHARIDES  
 NAPHTHENES  
 NEMBUTAL (TRADEMARK)  
 NEOPENTANE  
 NITRATE ESTERS  
 NITROAMINES  
 NITROFLUORAMINES  
 NITROPROPANE  
 NITROSAMINE  
 NITROSYL TRIFLUOROACETATE  
 NONABORANE  
 NONANES  
 NUCLEASE  
 NUCLEOSIDES  
 OCTANES  
 OCTOATES  
 OLEIC ACID  
 OXALIC ACID  
 OXYACETYLENE  
 PARAFFINS  
 PENTAERYTHRYLAMINE  
 PENTANES  
 PENTANONE  
 PENTOSE  
 PHOSGENE  
 POLYSACCHARIDES  
 PROPANE  
 PROPIONIC ACID  
 PROPYL COMPOUNDS  
 PROPYL NITRATE

# NASA THESAURUS (ALPHABETICAL LISTING)

PROPYLENE  
RIBOSE  
SEBACIC ACID  
SODIUM CHLORODIFLUOROACETATES  
SODIUM PERFLUOROBUTOXIDE  
STANNOSILOXANE  
STARCHES  
STEARATES  
SUCROSE  
SUGARS  
TETRA BUTYLS  
TETRAFLUOROHYDRAZINE  
THIOLS  
TRIAMINOGUANIDINIUM AZIDE  
TRIENES  
TRIETHYL COMPOUNDS  
TRIFLUOROAMINE OXIDE  
TRIMETHADIONE  
TRIMETHYL COMPOUNDS  
TRINITRAMINE  
TRIOLS  
TRIS (DIFLUORAMINO) FLUOROMETHANE  
URETHANES  
VALERIC ACID  
VERSENE  
VINYLIDENE  
XYLOSE  
RT ACETATES  
ALCOHOLS  
ALDEHYDES  
AMIDES  
#AMINES  
CARBONYL COMPOUNDS  
CARBOXYLIC ACIDS  
CHEMICAL COMPOUNDS  
CYANIDES  
#ESTERS  
#HYDROCARBONS  
#HYDROXYL COMPOUNDS  
NITRILES  
#PHOSPHORUS COMPOUNDS  
ALKALI HALIDES  
0603 1804  
NT CESIUM BROMIDES  
CESIUM FLUORIDES  
CESIUM HALIDES  
CESIUM IODIDES  
POTASSIUM IODIDES  
SODIUM BROMIDES  
SODIUM CHLORIDES  
SODIUM FLUORIDES  
SODIUM IODIDES  
BT HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
ALKALI METAL COMPOUNDS  
0603 1804  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF GROUP 1A COMPOUNDS  
RT #CESIUM COMPOUNDS  
#LITHIUM COMPOUNDS  
POTASSIUM COMPOUNDS  
RUBIDIUM COMPOUNDS  
#SODIUM COMPOUNDS  
ALKALI METALS  
0603 1703 1804  
NT BARIUM ISOTOPES  
CESIUM  
CESIUM ISOTOPES  
CESIUM VAPOR  
CESIUM 133  
CESIUM 134  
CESIUM 137  
CESIUM 144  
FRANCIUM  
LIQUID POTASSIUM  
LIQUID SODIUM  
LITHIUM  
LITHIUM ISOTOPES  
POTASSIUM  
POTASSIUM ISOTOPES  
POTASSIUM 38  
POTASSIUM 39  
POTASSIUM 40  
RUBIDIUM  
RUBIDIUM ISOTOPES  
RUBIDIUM 86  
SODIUM  
SODIUM ISOTOPES  
SODIUM VAPOR

SODIUM 22  
SODIUM 24  
BT #CHEMICAL ELEMENTS  
#METALS  
RT CESIUM ALLOYS  
METAL VAPORS  
ALKALIES  
0603 1703 1806 1807  
UF CAUSTICS  
NT LITHIUM HYDROXIDES  
POTASSIUM HYDROXIDES  
SODIUM HYDROXIDES  
RT BASES (CHEMICAL)  
CARBONATES  
HYDROXIDES  
ALKALINE BATTERIES  
0302 0603  
BT DIRECT POWER GENERATORS  
ELECTRIC BATTERIES  
#ELECTRIC GENERATORS  
#ELECTROCHEMICAL CELLS  
PRIMARY BATTERIES  
RT STORAGE BATTERIES  
THERMAL BATTERIES  
ALKALINE EARTH COMPOUNDS  
0603 1306 1806  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF GROUP 2A COMPOUNDS  
RT ALKALINE EARTH METALS  
ALKALINE EARTH OXIDES  
BARIUM COMPOUNDS  
BERYLLIUM COMPOUNDS  
#CALCIUM COMPOUNDS  
#MAGNESIUM COMPOUNDS  
#STRONTIUM COMPOUNDS  
ALKALINE EARTH METALS  
0603 1703  
BT #CHEMICAL ELEMENTS  
#METALS  
RT ALKALINE EARTH COMPOUNDS  
ALKALINE EARTH OXIDES  
0603 1306 1806  
NT AKERMANITE  
BARIUM OXIDES  
BERYLLIUM OXIDES  
CALCIUM OXIDES  
MAGNESIUM OXIDES  
PERICLASE  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
RT ALKALINE EARTH COMPOUNDS  
ALKALOIDS  
0408 0409 1808  
NT ARECOLINE HYDROBROMIDE  
ATROPINE  
BETAINES  
COLCHICINE  
ERGOTAMINE  
HYOSCINE  
LYSERGINE  
MORPHINE  
NICOTINAMIDE  
NICOTINE  
PILOCARPINE  
RESERPINE  
TROPYL COMPOUNDS  
BT #HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
RT CURARE  
#DRUGS  
STRYCHNINE  
ALKALOSIS  
0404 0408  
RT HYPERVENTILATION  
ALKANES  
0403 0603 1808  
UF SATURATED HYDROCARBONS  
NT BUTANES  
CERESIN  
CETANE  
ETHANE  
HEPTANES  
HEXENES  
METHANE  
NEOPENTANE  
NITROPROPANE  
NONANES  
OCTANES  
PARAFFINS

## ALLERGIC DISEASES

PENTANES  
PROPANE  
BT #ALIPHATIC COMPOUNDS  
#HYDROCARBONS  
RT HYDROCARBON FUELS  
WAXES  
ALKENES  
0403 0603 1808  
UF OLEFINS  
NT BUTADIENE  
BUTENES  
ETHYLENE  
HEXENES  
PROPYLENE  
TRIENES  
VINYLIDENE  
BT #ALIPHATIC COMPOUNDS  
#HYDROCARBONS  
RT ALKYNES  
TERPENES  
ALKYD RESINS  
1808 1809  
BT #RESINS  
RT ADHESIVES  
PROTECTIVE COATINGS  
ALKYL COMPOUNDS  
1808  
NT ALKYLIDENE  
CETYL COMPOUNDS  
DIBUTYL COMPOUNDS  
HEXYL COMPOUNDS  
ISOPROPYL NITRATE  
METHYL NITRATE  
METHYLISOCYANATOSILANE  
PROPYL NITRATE  
TRIETHYL COMPOUNDS  
TRIMETHYL COMPOUNDS  
BT #ALIPHATIC COMPOUNDS  
ALKYLATES  
0603 1804 2701  
BT #ALIPHATIC COMPOUNDS  
#ESTERS  
RT ALKYLATION  
ALKYLATION  
0602  
UF OXYALKYLATION  
BT #CHEMICAL REACTIONS  
RT ALKYLATES  
FRIEDEL-CRAFT REACTION  
METHYLATION  
REFINING  
ALKYLPERROCENE  
0403 1808  
BT PERROCENES  
#IRON COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS  
ALKYLIDENE  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
ALKYL COMPOUNDS  
ALKYNES  
0603 1808  
NT ACETYLENE  
OXYACETYLENE  
BT #ALIPHATIC COMPOUNDS  
#HYDROCARBONS  
RT ALKENES  
CYCLIC HYDROCARBONS  
ALL SKY PHOTOGRAPHY  
1407  
BT #IMAGERY  
#PHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
CLOUD PHOTOGRAPHS  
CLOUD PHOTOGRAPHY  
WIDE ANGLE LENSES  
ALL-WEATHER AIR NAVIGATION  
0201 0203 2101 2103  
BT AIR NAVIGATION  
#NAVIGATION  
RT DOPPLER NAVIGATION  
INERTIAL NAVIGATION  
#NAVIGATION AIDS  
RADAR NAVIGATION  
RADIO NAVIGATION  
SOLAR COMPASSES  
TACAN  
ALLERGIC DISEASES  
0408  
RT CONTACT DERMATITIS  
IMMUNOLOGY

# ALLOCATIONS

## ALLOCATIONS

3402  
 UP ASSIGNMENT  
 NT RESOURCE ALLOCATION  
 RT ALLOWANCES  
 BUDGETING  
 COST EFFECTIVENESS  
 DISTRIBUTING  
 DISTRIBUTION  
 ECONOMIC ANALYSIS  
 ECONOMIC FACTORS  
 ENGINEERING MANAGEMENT  
 ESTIMATES  
 FEDERAL BUDGETS  
 FINANCIAL MANAGEMENT  
 PROCUREMENT MANAGEMENT  
 PROJECT PLANNING  
 RESEARCH MANAGEMENT  
 REVENUE  
 ALLOTROPY  
 0603 1704 2601  
 RT AUSTENITE  
 CRYSTAL STRUCTURE  
 POLYMORPHISM  
 ALLOWANCES  
 1503  
 RT ALLOCATIONS  
 CLEARANCES  
 COMPENSATION  
 PRECISION  
 PRODUCTIVITY  
 REGULATIONS  
 RELIABILITY  
 SAMPLING  
 TOLERANCES (MECHANICS)  
 ALLOXAN  
 0403 1808  
 BT #HETEROCYCLIC COMPOUNDS  
 #ALLOYS  
 1701  
 UP METAL ALLOYS  
 NT ALUMINUM ALLOYS  
 ANTIMONY ALLOYS  
 ARSENIC ALLOYS  
 AUSTENITIC STAINLESS STEELS  
 BAINITIC STEEL  
 BARIUM ALLOYS  
 BEARING ALLOYS  
 BERYLLIUM ALLOYS  
 BINARY ALLOYS  
 BISMUTH ALLOYS  
 BORON ALLOYS  
 BRASSES  
 BRONZES  
 CADMIUM ALLOYS  
 CARBON STEELS  
 CESIUM ALLOYS  
 CHROMIUM ALLOYS  
 CHROMIUM STEELS  
 COBALT ALLOYS  
 COPPER ALLOYS  
 CROLOY  
 ERBIUM ALLOYS  
 EUTECTIC ALLOYS  
 GALLIUM ALLOYS  
 GERMANIUM ALLOYS  
 GOLD ALLOYS  
 HAFNIUM ALLOYS  
 HASTELLOY (TRADEMARK)  
 HEAT RESISTANT ALLOYS  
 HIGH STRENGTH ALLOYS  
 HIGH STRENGTH STEELS  
 INCONEL (TRADEMARK)  
 INDIUM ALLOYS  
 IRON ALLOYS  
 KANACITE  
 KOVAR (TRADEMARK)  
 LANTHANUM ALLOYS  
 LEAD ALLOYS  
 LIGHT ALLOYS  
 LIQUID ALLOYS  
 LITHIUM ALLOYS  
 MAGNESIUM ALLOYS  
 MANGANESE ALLOYS  
 MANGANIN (TRADEMARK)  
 MARAGING STEELS  
 MARTENSITIC STAINLESS STEELS  
 MERCURY ALLOYS  
 MERCURY AMALGAMS  
 MOLYBDENUM ALLOYS  
 MONEL (TRADEMARK)  
 MULBERRY (ALLOY)

NEODYMIUM ALLOYS  
 NICHROME (TRADEMARK)  
 NICKEL ALLOYS  
 NICKEL STEELS  
 NIMONIC ALLOYS  
 NIOBIUM ALLOYS  
 NITINOL ALLOYS  
 OSMIUM ALLOYS  
 PALLADIUM ALLOYS  
 PERMALLOYS (TRADEMARK)  
 PLATINUM ALLOYS  
 PLUTONIUM ALLOYS  
 POTASSIUM ALLOYS  
 QUATERNARY ALLOYS  
 RARE EARTH ALLOYS  
 REFRACTORY METAL ALLOYS  
 RENE 41  
 RENE 63  
 RENE 77  
 RHENIUM ALLOYS  
 RHODIUM ALLOYS  
 RUTHENIUM ALLOYS  
 SELENIUM ALLOYS  
 SILICON ALLOYS  
 SILVER ALLOYS  
 SODIUM ALLOYS  
 SOLDERS  
 STAINLESS STEELS  
 STEELS  
 TANTALUM ALLOYS  
 TELLURIUM ALLOYS  
 TERNARY ALLOYS  
 THORIUM ALLOYS  
 TIN ALLOYS  
 TITANIUM ALLOYS  
 TUNGSTEN ALLOYS  
 UDIMET ALLOYS  
 URANIUM ALLOYS  
 VANADIUM ALLOYS  
 WASPALOY  
 WROUGHT ALLOYS  
 YTTRIUM ALLOYS  
 ZINC ALLOYS  
 ZIRCALOY 2 (TRADEMARK)  
 ZIRCALOYS (TRADEMARK)  
 ZIRCONIUM ALLOYS  
 RT BINETALS  
 #BINARY SYSTEMS (MATERIALS)  
 EUTECTICS  
 FERROUS METALS  
 HARDENERS  
 #HEAT TREATMENT  
 INTERMETALLICS  
 LIQUID PHASES  
 METALLOGRAPHY  
 METALLURGY  
 #METALS  
 #MIXTURES  
 PHASE DIAGRAMS  
 POWDER METALLURGY  
 SOLID SOLUTIONS  
 STRESS RELIEVING  
 TERNARY SYSTEMS  
 ALLYL COMPOUNDS  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 RT DIALLYL COMPOUNDS  
 ALMUCANTAR  
 USE ELEVATION ANGLE  
 ALOUETTE B SATELLITE  
 3107 3110  
 BT ALOUETTE SATELLITES  
 ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT ISIS-X  
 ALOUETTE 3 HELICOPTER  
 USE SE-3160 HELICOPTER  
 ALOUETTE HELICOPTERS  
 0206  
 NT SA-330 HELICOPTER  
 SE-3160 HELICOPTER  
 BT HELICOPTERS  
 ROTARY WING AIRCRAFT  
 #SUD AVIATION AIRCRAFT  
 #V/STOL AIRCRAFT  
 ALOUETTE PROJECT  
 3409  
 RT ALOUETTE 1 SATELLITE  
 ALOUETTE SATELLITES  
 ISIS-A

# NASA THESAURUS (ALPHABETICAL LISTING)

ALOUETTE 1 SATELLITE  
 3107 3110  
 UP S-27 SATELLITE  
 BT ALOUETTE SATELLITES  
 ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT ALOUETTE PROJECT  
 ALOUETTE 2 SATELLITE  
 3107  
 BT ALOUETTE SATELLITES  
 ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ISIS SATELLITES  
 #SATELLITES  
 RT IONOSPHERIC SOUNDING  
 ALOUETTE SATELLITES  
 3107 3110  
 NT ALOUETTE B SATELLITE  
 ALOUETTE 1 SATELLITE  
 ALOUETTE 2 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT ALOUETTE PROJECT  
 ISIS SATELLITES  
 ALPHA DECAY  
 2403 2405 2406  
 BT #DECAY  
 #NUCLEAR REACTIONS  
 RADIOACTIVE DECAY  
 RT FINE STRUCTURE  
 ALPHA PARTICLES  
 2403 2405  
 (EMITTED BY NUCLEI)  
 UP ALPHA RADIATION  
 BT BOSONS  
 CHARGED PARTICLES  
 ELEMENTARY PARTICLES  
 #IONIZING RADIATION  
 NUCLEAR PARTICLES  
 NUCLEI (NUCLEAR PHYSICS)  
 #PARTICLES  
 RT ALPHATRON  
 CORPUSCULAR RADIATION  
 COSMIC RAYS  
 DEUTERON IRRADIATION  
 DEUTERONS  
 FLUX DENSITY  
 HELIUM IONS  
 #IONS  
 NUCLEAR RADIATION  
 NUCLEONS  
 PROTONS  
 RADIOACTIVITY  
 TRITONS  
 ALPHA PLASMA DEVICES  
 2403 2501  
 BT PLASMA ACCELERATORS  
 RT DEVICES  
 HALL ACCELERATORS  
 MAGNETOHYDRODYNAMICS  
 PLASMA PHYSICS  
 ALPHA RADIATION  
 USE ALPHA PARTICLES  
 ALPHABETS  
 0702 0802 1902 3405  
 RT #ALPHANUMERIC CHARACTERS  
 CODING  
 #LANGUAGES  
 SYMBOLS  
 #ALPHANUMERIC CHARACTERS  
 0802 0803 1802 1803  
 NT BINARY DIGITS  
 DIGITS  
 RT ALPHABETS  
 NUMBERS  
 SYMBOLS  
 ALPHATRON  
 2202 2403 3404  
 BT IONIZATION GAGES  
 #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 #VACUUM APPARATUS  
 VACUUM GAGES  
 RT ALPHA PARTICLES  
 ALSEP  
 USE APOLLO LUNAR SURFACE EXPERIMENTS  
 PACKAGE  
 ALTAR ENGINE  
 USE X-248 ENGINE

# NASA THESAURUS (ALPHABETICAL LISTING)

**ALTERATION**  
 USE REVISIONS  
**ALTERNATING CURRENT**  
 0302 0303 0902 0904 2304 3407  
 UF AC (CURRENT)  
 BT #ELECTRIC CURRENT  
 #ELECTRICITY  
 RT DIRECT CURRENT  
**ALTERNATING CURRENT GENERATORS**  
 USE AC GENERATORS  
**ALTERNATIONS**  
 3407  
 BT PERIODIC VARIATIONS  
 #VARIATIONS  
 RT #CYCLES  
 INTERVALS  
 RHYTHM (BIOLOGY)  
**ALTERNATIVES**  
 3408  
 RT OPTIONS  
 SUBSTITUTES  
 #VARIATIONS  
**ALTERNATORS (GENERATORS)**  
 USE AC GENERATORS  
**ALTIMETERS**  
 0202 0203 1402  
 NT LASER ALTIMETERS  
 RADIO ALTIMETERS  
 BT #AIRCRAFT INSTRUMENTS  
 DISTANCE MEASURING EQUIPMENT  
 #MEASURING INSTRUMENTS  
 RT ALTITUDE  
 APPROACH INDICATORS  
 BAROMETERS  
 #FLIGHT INSTRUMENTS  
 HYPSONETERS  
 LANDING INSTRUMENTS  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 POSITION INDICATORS  
 RANGE FINDERS  
 RATE OF CLIMB INDICATORS  
**ALTITUDE**  
 1308 2003 2103 3001 3006  
 NT FLIGHT ALTITUDE  
 HIGH ALTITUDE  
 LOW ALTITUDE  
 SIMULATED ALTITUDE  
 RT ALTIMETERS  
 APICES  
 AZIMUTH  
 DISTANCE  
 ELEVATION  
 ELEVATION ANGLE  
 HEIGHT  
 POSITION (LOCATION)  
 THICKNESS  
**ALTITUDE ACCLIMATIZATION**  
 0401 0408  
 BT ACCLIMATIZATION  
 #ADAPTATION  
 RT MOUNTAIN INHABITANTS  
**ALTITUDE CONTROL**  
 0203 1402 1410  
 RT LASER ALTIMETERS  
 LATERAL CONTROL  
 LONGITUDINAL CONTROL  
 SPACING  
**ALTITUDE SICKNESS**  
 0401 0408  
 BT SICKNESSES  
 RT AEROSINUSITIS  
 DECOMPRESSION SICKNESS  
**ALTITUDE SIMULATION**  
 1108  
 BT ENVIRONMENT SIMULATION  
 #SIMULATION  
 RT ALTITUDE TESTS  
 COMPUTERIZED SIMULATION  
 FLIGHT SIMULATION  
 HIGH ALTITUDE ENVIRONMENTS  
 HYPOBARIC ATMOSPHERES  
 LANDING SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 THERMAL SIMULATION  
 TRAINING DEVICES  
 VACUUM CHAMBERS  
**ALTITUDE TESTS**  
 1108  
 NT HIGH ALTITUDE TESTS  
 RT ALTITUDE SIMULATION  
 ENGINE TESTS

**FLIGHT TESTS**  
 FULL SCALE TESTS  
 TEST VEHICLES  
 TESTS  
**ALTITUDE TOLERANCE**  
 0401 0408  
 BT TOLERANCES (PHYSIOLOGY)  
**ALU (COMPUTER COMPONENTS)**  
 USE ARITHMETIC AND LOGIC UNITS  
**ALUM**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 POTASSIUM COMPOUNDS  
 SULFATES  
 #SULFUR COMPOUNDS  
**ALUMINA**  
 USE ALUMINUM OXIDES  
**ALUMINATES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 RT ALUMINUM OXIDES  
 OXYGEN COMPOUNDS  
 SPIREL  
**ALUMINIZING**  
 USE ALUMINUM COATINGS  
**ALUMINUM**  
 0603 1703  
 NT ALUMINUM ISOTOPES  
 ALUMINUM 26  
 ALUMINUM 27  
 POWDERED ALUMINUM  
 SINTERED ALUMINUM POWDER  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RT BORAL  
 CRYOLITE  
**ALUMINUM ALLOYS**  
 1701 1703  
 BT #ALLOYS  
 LIGHT ALLOYS  
 BEARING ALLOYS  
**ALUMINUM ANTIMONIDES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 ANTIMONIDES  
 #ANTIMONY COMPOUNDS  
**ALUMINUM BOROHYDRIDES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 ALUMINUM HYDRIDES  
 BOROHYDRIDES  
 #BORON COMPOUNDS  
 BORON HYDRIDES  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 METAL HYDRIDES  
**ALUMINUM CARBIDES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 CARBIDES  
 #CARBON COMPOUNDS  
**ALUMINUM CHLORIDES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 CHLORIDES  
 CHLORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
**ALUMINUM COATINGS**  
 1703 1704  
 UF ALUMINIZING  
 BT #COATINGS  
 METAL COATINGS  
**#ALUMINUM COMPOUNDS**  
 0603 1804  
 NT ALUM  
 ALUMINATES  
 ALUMINUM ANTIMONIDES  
 ALUMINUM BOROHYDRIDES  
 ALUMINUM CARBIDES  
 ALUMINUM CHLORIDES  
 ALUMINUM ETHOXIDE  
 ALUMINUM FLUORIDES  
 ALUMINUM HYDRIDES  
 ALUMINUM NITRIDES  
 ALUMINUM OXIDES  
 ALUMINUM PERCHLORATES  
 ALUMINUM SILICATES  
 ANDESITE  
 BERYL  
 CORDIERITE

## ALUMINUM 27

CRYOLITE  
 FELDSPARS  
 KAOLINITE  
 LITHIUM ALUMINUM HYDRIDES  
 MONTMORILLONITE  
 MUSCOVITE  
 NEPHELINE  
 NEPHELINE  
 ORGANIC ALUMINUM COMPOUNDS  
 PYROPHYLLITE  
 SAPPHIRE  
 SPODUMENE  
 TOURMALINE  
 RT GROUP 3A COMPOUNDS  
 METAL COMPOUNDS  
 METAL FUELS  
 METAL PROPELLANTS  
**ALUMINUM ETHOXIDE**  
 0603 1808  
 BT #ALIPHATIC COMPOUNDS  
 #ALUMINUM COMPOUNDS  
 #ESTERS  
**ALUMINUM FLUORIDES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
**ALUMINUM HYDRIDES**  
 0603 1804  
 NT ALUMINUM BOROHYDRIDES  
 BT #ALUMINUM COMPOUNDS  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 METAL HYDRIDES  
**ALUMINUM ISOTOPES**  
 0603 1703 2406  
 NT ALUMINUM 26  
 ALUMINUM 27  
 BT ALUMINUM  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
**ALUMINUM NITRIDES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 NITRIDES  
 #NITROGEN COMPOUNDS  
**ALUMINUM OXIDES**  
 0603 1804  
 UF ALUMINA  
 CORUNDUM  
 NT SAPPHIRE  
 BT #ALUMINUM COMPOUNDS  
 #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 RT ABRASIVES  
 ALUMINATES  
 BAUXITE  
 ENERGY ABSORPTION FILMS  
 RUBY  
**ALUMINUM PERCHLORATES**  
 0603 1804  
 BT #ALUMINUM COMPOUNDS  
 CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 PERCHLORATES  
**ALUMINUM SILICATES**  
 0603 1804  
 NT ANDESITE  
 KAOLINITE  
 MONTMORILLONITE  
 PYROPHYLLITE  
 BT #ALUMINUM COMPOUNDS  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
**ALUMINUM 26**  
 0603 1703 2406  
 BT ALUMINUM  
 ALUMINUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
**ALUMINUM 27**  
 0603 1703 2406  
 BT ALUMINUM  
 ALUMINUM ISOTOPES  
 #CHEMICAL ELEMENTS

## ALVEOLAR AIR

ISOTOPES  
NUCLIDES  
ALVEOLAR AIR  
0404  
BT AIR  
RT EXHALATION  
EXPIRED AIR  
LUNGS  
ALVEOLI  
0404  
RT LUNGS  
AMALGAMS  
USE MERCURY AMALGAMS  
AMBERLITE (TRADEMARK)  
1805 1806  
RT ASBESTOS  
THERMAL INSULATION  
AMBIENCE  
3304 3408  
RT #ENVIRONMENTS  
AMBIENT TEMPERATURE  
1408 3408  
OF ENVIRONMENTAL TEMPERATURE  
BT #TEMPERATURE  
RT ATMOSPHERIC TEMPERATURE  
OPERATING TEMPERATURE  
ROOM TEMPERATURE  
SATELLITE TEMPERATURE  
AMBIGUITY  
2103  
RT INTELLIGIBILITY  
POSITIONING  
AMBIPOLAR DIFFUSION  
2403 2502  
BT #DIFFUSION  
RT ELECTRON DIFFUSION  
ELECTRON MOBILITY  
IONIC DIFFUSION  
IONIC MOBILITY  
PLASMA DIFFUSION  
AMBIT  
USE FIELD THEORY (PHYSICS)  
AMBULANCES  
1101 1104  
RT MEDICAL SERVICES  
MILITARY VEHICLES  
SAFETY DEVICES  
AMERICIUM  
0603 1703 2406  
NT AMERICIUM ISOTOPES  
AMERICIUM 241  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSURANIUM ELEMENTS  
AMERICIUM ISOTOPES  
0603 1703 2406  
NT AMERICIUM 241  
BT ACTINIDE SERIES  
AMERICIUM  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSURANIUM ELEMENTS  
AMERICIUM 241  
0603 1703 2406  
BT ACTINIDE SERIES  
AMERICIUM  
AMERICIUM ISOTOPES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSURANIUM ELEMENTS  
AMIDASE  
0403 1808  
BT ENZYMES  
#ORGANIC COMPOUNDS  
#PROTEINS  
RT AMINO ACIDS  
AMIDES  
0403 0603 1804 1808  
NT ACETANILIDE  
ACETAZOLANIDE

CARBAMIDES  
CYANAMIDES  
DIPFLUORUREA  
FORMHYDROXAMIC ACID  
LYSERGAMIDE  
NICOTINAMIDE  
POLYIMIDES  
PSEUDOURREA  
SUCCINIMIDES  
THIOUREAS  
THIURONIUM  
UREAS  
BT #NITROGEN COMPOUNDS  
RT #ALIPHATIC COMPOUNDS  
IMIDES  
#AMINES  
1808  
NT AMINOPHYLLINE  
AMPHETAMINES  
ANILINE  
CATECHOLAMINE  
CYSTEAMINE  
DIAMINES  
DIPFLUORUREA  
DINENHYDRINATE  
DINETHYLHYDRAZINES  
DIPHENYL HYDANTOIN  
ERGOTAMINE  
ETHYLENEDIAMINE  
FLUOROAMINES  
GALLAMINE TRIETHIODIDE  
GUANETHIDINE  
GUANDINES  
HEXAMETHYLENETETRAMINE  
HISTIDINE  
HYDROXYLAMINE SULFATE  
HYOSCINE  
MECAMILAMINE  
MELAMINE  
METHAMPHETAMINE  
METHAPYRILENE  
METHYLENE DIAMINE  
MONOETHANOLAMINE (MEA)  
NITROAMINES  
NITROFLUORANINES  
NITROSAMINE  
PENTAERYTHRYLAMINE  
PROMETHAZINE  
PSEUDOURREA  
TETRAFLUOROHYDRAZINE  
TETRYL  
THIURONIUM  
TRIAMINOGUANIDINIUM AZIDE  
TRIFLUOROANINE OXIDE  
TRINITRAMINE  
TRIS (DIPFLUORAMINO) FLUOROMETHANE  
TRYPTAMINES  
VERSERNE  
BT #ALIPHATIC COMPOUNDS  
HISTAMINES  
HYDRAZINES  
HYDROCARBON FUELS  
IMINES  
LEWIS BASE  
AMINO ACIDS  
0403 1808  
NT ASPARTIC ACID  
CYSTEINE  
FOLIC ACID  
GLUTAMIC ACID  
GLUTAMINE  
GLUTATHIONE  
GLYCINE  
HIPPUREIC ACID  
HISTIDINE  
HYPERTENSIN  
LEUCINE  
LYSINE  
MELANOIDIN  
METHIONINE  
PAPAIN  
PHENYLALANINE  
PROTOPROTEINS  
PYRIDINE NUCLEOTIDES  
PYROVATES  
THYROXINE  
TRYPTOPHAN  
URIDYLIC ACID  
BT #ACIDS  
#ORGANIC COMPOUNDS  
RT ADENOSINE TRIPHOSPHATE (ATP)  
ADRENOCORTICOTROPIN (ACTH)

## NASA THESAURUS (ALPHABETICAL LISTING)

AMIDASE  
ASPARTATES  
AMINOPHYLLINE  
0403 1808  
BT #AMINES  
AMINOPYRINE  
0403 1808  
BT #HETEROCYCLIC COMPOUNDS  
RT #DRUGS  
AMMETERS  
0904 1406 2304  
NT MICRONILLIAMMETERS  
THERMOELEMENT AMMETERS  
BT #MEASURING INSTRUMENTS  
COULOMETERS  
#ELECTRIC CURRENT  
ELECTRICAL MEASUREMENT  
GALVANOMETERS  
VOLTMETERS  
AMMINES  
1808  
RT AMMONIA  
CHEMICAL COMPOUNDS  
COPPER  
INTERMETALLICS  
METAL COMPOUNDS  
AMMONIA  
0403 0603 1804  
NT LIQUID AMMONIA  
BT #INORGANIC COMPOUNDS  
#NITROGEN COMPOUNDS  
RT AMMINES  
AMMONIUM COMPOUNDS  
AMMONOLYSIS  
CULTIVATION  
FERTILIZERS  
KJELDAHL METHOD  
NITROGEN HYDRIDES  
REFRIGERANTS  
AMMONIUM BROMIDES  
1804  
BT AMMONIUM COMPOUNDS  
BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
AMMONIUM CHLORIDES  
0603 1804  
BT AMMONIUM COMPOUNDS  
CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
AMMONIUM COMPOUNDS  
0603 1804  
NT AMMONIUM BROMIDES  
AMMONIUM CHLORIDES  
AMMONIUM NITRATES  
AMMONIUM PERCHLORATES  
AMMONIUM PHOSPHATES  
AMMONIUM PICRATES  
AMMONIUM SULFATES  
HYDROXYLAMMONIUM PERCHLORATES  
RT AMMONIA  
HEXAMETHONIUM  
AMMONIUM NITRATES  
0603 1804  
BT AMMONIUM COMPOUNDS  
INORGANIC NITRATES  
NITRATES  
#NITROGEN COMPOUNDS  
RT CULTIVATION  
FERTILIZERS  
AMMONIUM PERCHLORATES  
0603 1804  
BT AMMONIUM COMPOUNDS  
CHLORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
PERCHLORATES  
RT SOLID ROCKET PROPELLANTS  
AMMONIUM PHOSPHATES  
0603 1804  
BT AMMONIUM COMPOUNDS  
PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
AMMONIUM PICRATES  
0403 1808  
BT AMMONIUM COMPOUNDS  
RT EXPLOSIVES  
AMMONIUM SULFATES  
0603 1804  
BT AMMONIUM COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

SULFATES  
#SULFUR COMPOUNDS  
AMMONOLYSIS  
0403 0602 0603  
BT #CHEMICAL REACTIONS  
DECOMPOSITION  
RT AMMONIA  
HYDROLYSIS  
AMMUNITION  
3302 3401  
NT INCENDIARY AMMUNITION  
RT BLANKS  
BOMBS (ORDNANCE)  
CASE BONDED PROPELLANTS  
#EXPLOSIVE DEVICES  
EXPLOSIVES  
FUSES (ORDNANCE)  
GRENADES  
GUNS (ORDNANCE)  
#IGNITERS  
MAGAZINES (SUPPLY CHAMBERS)  
MINES (ORDNANCE)  
#MISSILES  
ORDNANCE  
PROJECTILES  
#PROPELLANTS  
PYROTECHNICS  
ROCKETS  
SHAPED CHARGES  
SHOT  
TORPEDOES  
TRACERS  
WARHEADS  
#WEAPONS  
ANOBARBITAL  
0403 0405 1808  
BT #ACIDS  
RT CENTRAL NERVOUS SYSTEM DEPRESSANTS  
AMORBA  
0402 0404 0407  
NT PELONYIA  
BT #ANIMALS  
INVERTEBRATES  
#MICROORGANISMS  
PROTOZOA  
RT PARASITIC DISEASES  
AMORPHOUS MATERIALS  
1801 1804 1805 1808  
RT ASPHALT  
CRYSTALLINITY  
GLASS  
GROUT  
MATERIALS  
AMORPHOUSNESS  
USE CRYSTALLINITY  
ABOUT  
3408  
UP QUANTITY  
AMPERAGE  
USE #ELECTRIC CURRENT  
AMPHETAMINES  
0403 0405 0408 1808  
NT METHAMPHETAMINE  
BT #AMINES  
RT CENTRAL NERVOUS SYSTEM STIMULANTS  
AMPHIBIA  
0402 0404  
NT FROGS  
BT #ANIMALS  
POIKILOthermia  
VERTEBRATES  
AMPHIBIOUS AIRCRAFT  
0201  
UP WATER TAKEOFF AND LANDING AIRCRAFT  
NT SEAPLANES  
BT AMPHIBIOUS VEHICLES  
RT AIRCRAFT  
SAAB 401 AIR CUSHION VEHICLE  
SEAPLANES  
VA-3 GROUND EFFECT MACHINE  
WATER TAKEOFF AND LANDING AIRCRAFT  
AMPHIBIOUS VEHICLES  
1204 3401  
NT AMPHIBIOUS AIRCRAFT  
RT BOATS  
MILITARY VEHICLES  
SEAPLANES  
SHIPS  
#SURFACE VEHICLES  
VEHICLES  
#WATER VEHICLES

AMPHIBIOLES  
1806  
BT #MINERALS  
RT CALCIUM SILICATES  
SILICATES  
AMPLIDYNES  
0302 0303 0904  
BT #ELECTRIC GENERATORS  
ROTATING GENERATORS  
RT #AMPLIFIERS  
ELECTRIC MOTORS  
POWER AMPLIFIERS  
SERVOMOTORS  
AMPLIFICATION  
0703 0710 0905 1001 1002 1201 2311  
UP AMPLIFICATION FACTOR  
GAIN (AMPLIFICATION)  
INTENSIFICATION  
NT POWER GAIN  
SOUND AMPLIFICATION  
RT #AMPLIFIERS  
AMPLITUDES  
#DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
FLUID AMPLIFIERS  
FLUIDICS  
MAGNIFICATION  
POSITIVE FEEDBACK  
#SENSITIVITY  
#STABILITY  
TRANSFER FUNCTIONS  
TRANSIENT RESPONSE  
AMPLIFICATION FACTOR  
USE AMPLIFICATION  
AMPLIFIER DESIGN  
1001 1002 1201 1202 1601 3404  
RT #AMPLIFIERS  
COMPUTERIZED DESIGN  
DESIGN  
LOGIC DESIGN  
PRODUCT DEVELOPMENT  
#AMPLIFIERS  
0701 0902 0905 1002 1201 1601 2311  
UP ELECTRONIC AMPLIFIERS  
FREQUENCY AMPLIFIERS  
NT BEAM PLASMA AMPLIFIERS  
BROADBAND AMPLIFIERS  
CARCINOTRONS  
CROSSED FIELD AMPLIFIERS  
CURRENT AMPLIFIERS  
DIFFERENTIAL AMPLIFIERS  
DISTRIBUTED AMPLIFIERS  
FEEDBACK AMPLIFIERS  
FLUID AMPLIFIERS  
FREQUENCY MODULATION  
PHOTOMULTIPLIERS  
INTERMEDIATE FREQUENCY AMPLIFIERS  
JET AMPLIFIERS  
LIGHT AMPLIFIERS  
LIMITER AMPLIFIERS  
LINEAR AMPLIFIERS  
MAGNETIC AMPLIFIERS  
MAGNETOSTATIC AMPLIFIERS  
MICROWAVE AMPLIFIERS  
PARAMETRIC AMPLIFIERS  
PHOTOMULTIPLIER TUBES  
POSTAMPLIFIERS  
POWER AMPLIFIERS  
PREAMPLIFIERS  
PUSH-PULL AMPLIFIERS  
SERVOAMPLIFIERS  
TRANSISTOR AMPLIFIERS  
TRAVELING WAVE AMPLIFIERS  
VOLTAGE AMPLIFIERS  
RT AMPLIDYNES  
AMPLIFICATION  
AMPLIFIER DESIGN  
BOOSTERS  
CAPACITORS  
#CIRCUITS  
ELECTRIC CELLS  
ELECTRIC CHOPPERS  
IMAGE INTENSIFIERS  
#INTENSIFIERS  
KLYSTRONS  
LASERS  
LINEAR CIRCUITS  
MASERS  
MODULATORS  
MULTIVIBRATORS  
#OSCILLATORS  
RECEIVERS

## ANALOG CIRCUITS

REPEATERS  
SOLID STATE DEVICES  
#STIMULATED EMISSION DEVICES  
TRANSFORMERS  
TRAVELING WAVE MASERS  
AMPLITRONS (TRADEMARK)  
USE PLANOTRONS  
AMPLITUDE DISTRIBUTION ANALYSIS  
1902 1905  
UF AMPLITUDE PROBABILITY ANALYSIS  
BT #STATISTICAL ANALYSIS  
RT PHOTOPEAK  
PULSE AMPLITUDE  
SIGNAL TO NOISE RATIOS  
#SIGNATURES  
AMPLITUDE MODULATION  
0708 0710  
BT #MODULATION  
RT DEMODULATION  
DEMODULATORS  
FREQUENCY MODULATION  
LIGHT MODULATION  
MODULATORS  
P.A.C.H. TELEMETRY  
PHASE MODULATION  
PULSE MODULATION  
SINGLE SIDEBAND TRANSMISSION  
AMPLITUDE PROBABILITY ANALYSIS  
USE AMPLITUDE DISTRIBUTION ANALYSIS  
AMPLITUDES  
0710 1902 2311 3001  
NT PULSE AMPLITUDE  
SCATTERING AMPLITUDE  
RT AMPLIFICATION  
#CYCLES  
#DIMENSIONS  
DISPLACEMENT  
#FREQUENCIES  
INTENSITY  
#LEVEL (QUANTITY)  
MAGNITUDE  
#OSCILLATIONS  
#PULSES  
STANDING WAVE RATIOS  
#VIBRATION  
AMPOULES  
0405  
RT CONTAINERS  
LABORATORY EQUIPMENT  
VACUUM SYSTEMS  
AN-2 AIRCRAFT  
0201 0204  
BT ANTONOV AIRCRAFT  
#TRANSPORT AIRCRAFT  
AN-22 AIRCRAFT  
0204  
UP ANTHEUS AIRCRAFT  
ANTONOV AN-22 AIRCRAFT  
COCK AIRCRAFT  
BT ANTONOV AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
RT PASSENGER AIRCRAFT  
AN-24 AIRCRAFT  
0204  
UP ANTONOV AN-24 AIRCRAFT  
COKE AIRCRAFT  
BT ANTONOV AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
RT PASSENGER AIRCRAFT  
ANABAENA  
0407 0409  
BT ALGAE  
#PLANTS (BOTANY)  
ANAEBORES  
0404 0407  
BT #MICROORGANISMS  
RT BACTERIA  
ANALGESIA  
0405  
RT ANESTHESIA  
#DRUGS  
PAIN  
ANALOG CIRCUITS  
0802 0803  
BT #CIRCUITS  
RT ANALOG DATA

# ANALOG COMPUTERS

ANALOG SIMULATION  
DATA CONVERTERS  
RHEOELECTRICAL SIMULATION

ANALOG COMPUTERS  
0801 0802  
UP DIFFERENTIAL ANALYZERS  
BT COMPUTERS  
RT #DATA PROCESSING EQUIPMENT

ANALOG DATA  
ANALOG TO DIGITAL CONVERTERS  
DIFFERENTIAL AMPLIFIERS  
DIGITAL COMPUTERS  
DISCRIMINATORS  
FUNCTIONAL INTEGRATION  
HYBRID COMPUTERS  
MISSILE CONTROL  
RESOLVERS  
SIGNAL ANALYZERS  
SPECTRAL RESOLUTION

ANALOG DATA  
0802 0803  
RT ANALOG CIRCUITS  
ANALOG COMPUTERS  
ANALOG TO DIGITAL CONVERTERS  
BINARY DATA  
DATA  
DATA CONVERTERS  
#DATA PROCESSING  
DIGITAL DATA  
MEASUREMENT  
VIDEO DATA

ANALOG SIMULATION  
0802 0804  
BT COMPUTERIZED SIMULATION  
RT #SIMULATION

ANALOG CIRCUITS  
DIGITAL SIMULATION  
FLIGHT SIMULATION  
MATHEMATICAL MODELS  
RHEOELECTRICAL SIMULATION

ANALOG TO DIGITAL CONVERTERS  
0801 0802  
UP DIGITIZERS  
BT DATA CONVERTERS  
RT ANALOG COMPUTERS  
ANALOG DATA  
CODERS  
CODING  
CONVERTERS  
DATA ACQUISITION  
DIGITAL COMPUTERS  
DIGITAL SYSTEMS  
DIGITAL TO ANALOG CONVERTERS  
PLOTING

ANALOGIES  
0804 1902 1903  
UP ELECTRIC ANALOGIES  
SIMILARITIES  
NT HYDRAULIC ANALOGIES  
RT HOMOLOGY  
#SIMULATION

ANALOGS  
1108  
RT #MODELS  
#SIMULATORS

ANALYSIS  
USE ANALYZING  
#ANALYSIS (MATHEMATICS)  
1902  
(THAT PART OF THE FIELD OF MATHEMATICS  
WHICH ARISES FROM THE CALCULUS AND  
WHICH DEALS PRIMARILY WITH FUNCTIONS)

NT ABEL FUNCTION  
AIRY FUNCTION  
ANALYTIC FUNCTIONS  
APERIODIC FUNCTIONS  
ASYMPTOTES  
ASYMPTOTIC SERIES  
BANACH SPACE  
BESSEL FUNCTIONS  
BETHE-SALPETER EQUATION  
BIHARMONIC EQUATIONS  
BINARY INTEGRATION  
BLASIUS EQUATION  
BOREL SETS  
BURGER EQUATION  
CALCULUS  
CALCULUS OF VARIATIONS  
CAMPBELL-HAUSDORFF SERIES  
CAUCHY INTEGRAL FORMULA  
CAUCHY-RIEMANN EQUATIONS  
CHANDRASEKHAR EQUATION

COLLINEARITY  
COMBINATORIAL ANALYSIS  
COMPLEX VARIABLES  
COMPOSITE FUNCTIONS  
CONFORMAL MAPPING  
CONJUGATES  
CONTINUITY (MATHEMATICS)  
CONVOLUTION INTEGRALS  
COPLANARITY  
COSINE SERIES  
CUBIC EQUATIONS  
CURL (VECTORS)  
DELTA FUNCTION  
DEPENDENT VARIABLES  
DIFFERENTIAL CALCULUS  
DIFFERENTIAL EQUATIONS  
DUFFING DIFFERENTIAL EQUATION  
EINSTEIN EQUATIONS  
ELLIPTIC DIFFERENTIAL EQUATIONS  
ELLIPTIC FUNCTIONS  
ENTIRE FUNCTIONS  
EULER-CAUCHY EQUATIONS  
EXISTENCE THEOREMS  
EXPONENTIAL FUNCTIONS  
EXTREME VALUES  
FALKNER-SKAN EQUATION  
FOKKER-PLANCK EQUATION  
FOURIER ANALYSIS  
FOURIER-BESSEL TRANSFORMATION  
FOURIER-BESSEL TRANSFORMATIONS  
FOURIER SERIES  
FOURIER TRANSFORMATION  
FREDHOLM EQUATIONS  
FUNCTION SPACE  
FUNCTIONAL ANALYSIS  
FUNCTIONAL INTEGRATION  
GAMMA FUNCTION  
GAUSS EQUATION  
GREEN FUNCTION  
HALF PLANES  
HALF SPACES  
HANKEL FUNCTIONS  
HARMONIC ANALYSIS  
HARMONIC FUNCTIONS  
HELMHOLTZ VORTICITY EQUATION  
HILBERT SPACE  
HILBERT TRANSFORMATION  
HILL DETERMINANT  
HYPERBOLIC FUNCTIONS  
HYPERGEOMETRIC FUNCTIONS  
HYPERPLANES  
INTEGRAL CALCULUS  
INTEGRAL EQUATIONS  
INTEGRAL TRANSFORMATIONS  
JACOBI INTEGRAL  
JACOBI MATRIX METHOD  
KERNEL FUNCTIONS  
LAGUERRE FUNCTIONS  
LANE WAVE EQUATIONS  
LAPLACE TRANSFORMATION  
LEBESGUE THEOREM  
LEGENDRE FUNCTIONS  
LIAPUNOV FUNCTIONS  
LIMITS (MATHEMATICS)  
LINEAR EQUATIONS  
LIOUVILLE EQUATIONS  
LIOUVILLE THEOREM  
LIPSCHITZ CONDITION  
LOGARITHMS  
MACLAURIN SERIES  
MATHIEU FUNCTION  
MAXIMA  
MEASURE AND INTEGRATION  
MEROMORPHIC FUNCTIONS  
MINIMA  
MONGE-AMPERE EQUATION  
NEUMANN PROBLEM  
NONHOLONOMIC EQUATIONS  
NONLINEAR EQUATIONS  
NUMERICAL ANALYSIS  
NUMERICAL INTEGRATION  
ORTHOGONAL FUNCTIONS  
PADE APPROXIMATION  
PARABOLIC DIFFERENTIAL EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
PERIODIC FUNCTIONS  
PFUFF EQUATION  
PHASE-SPACE INTEGRAL  
POISSON EQUATION  
POWER SERIES  
PROGRESSIONS  
PRONY SERIES

# NASA THESAURUS (ALPHABETICAL LISTING)

QUADRATIC EQUATIONS  
QUARTIC EQUATIONS  
RATIONAL FUNCTIONS  
REAL VARIABLES  
RUNGE-KUTTA METHOD  
SCHWARZ-CHRISTOPFEL TRANSFORMATION  
SERIES (MATHEMATICS)  
SINE SERIES  
SINGULAR INTEGRAL EQUATIONS  
SINGULARITY (MATHEMATICS)  
SPHERICAL HARMONICS  
STIELTJES INTEGRAL  
STURM-LIOUVILLE THEORY  
TANGENTS  
TAYLOR SERIES  
TESSERAL HARMONICS  
TRIGONOMETRIC FUNCTIONS  
VECTOR ANALYSIS  
VLASOV EQUATIONS  
VOLTERRA EQUATIONS  
VORTICITY  
WEIERSTRASS FUNCTIONS  
WEIGHTING FUNCTIONS  
WHITTAKER FUNCTIONS  
WIENER HOPF EQUATIONS  
ZONAL HARMONICS

BT #ALGEBRA  
ANALYZING  
APPLICATIONS OF MATHEMATICS  
DISCONTINUITY  
EQUILIBRIUM EQUATIONS  
#GEOMETRY  
MATHEMATICS  
MONOTONE FUNCTIONS  
SPACE  
TREES (MATHEMATICS)  
VECTOR SPACES  
VENN DIAGRAMS  
VORTICITY EQUATIONS

ANALYTIC FUNCTIONS  
1902 1903  
UP HOLOMORPHISM  
NT ENTIRE FUNCTIONS  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
RT CAUCHY-RIEMANN EQUATIONS  
ISOPERIMETRIC PROBLEM  
NONHOLONOMIC EQUATIONS  
POWER SERIES

ANALYTIC GEOMETRY  
1902 1903  
NT CATENARIES  
CIRCUMFERENCES  
CONICS  
CYCLOIDS  
ELLIPSES  
EPICYCLOIDS  
GOMPERTZ CURVES  
HYPERBOLAS  
LOCI  
MERCATOR PROJECTION  
OBLATE SPHEROIDS  
PARABOLAS  
PROLATE SPHEROIDS  
QUADRANTS  
S CURVES  
SPHEROIDS  
TANGENTS  
TORUSES  
TRIGONOMETRY  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT ANNULL  
ASYMPTOTES  
CALCULUS  
#COORDINATES  
CURVES (GEOMETRY)  
CYLINDERS  
DESCRIPTIVE GEOMETRY  
DIFFERENTIAL GEOMETRY  
POLYTOPES  
PROJECTIVE GEOMETRY

ANALYTICAL CHEMISTRY  
0601 0603  
RT CHEMICAL ANALYSIS  
CHEMISTRY  
INORGANIC CHEMISTRY  
QUALITATIVE ANALYSIS  
QUANTITATIVE ANALYSIS  
VOLUMETRIC ANALYSIS

# NASA THESAURUS (ALPHABETICAL LISTING)

## ANALYZERS

0701 0801 0902 0905  
(EXCLUDES DEVICES FOR PERFORMING  
MATHEMATICAL ANALYSIS)  
NT ENGINE ANALYZERS  
SIGNAL ANALYZERS  
BT #MEASURING INSTRUMENTS  
RT #CONTROLLERS  
DETECTORS  
MONITORS  
SELECTORS  
TEST EQUIPMENT

## ANALYZING

0601 0802 1505 3406 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

## UP

ANALYSIS

## RT

ACTIVATION ANALYSIS

#ALGEBRA

#ANALYSIS (MATHEMATICS)

CHEMICAL ANALYSIS

COST ANALYSIS

CREEP ANALYSIS

DIAGNOSIS

DIFFERENTIAL GEOMETRY

DIFFERENTIAL THERMAL ANALYSIS

EVALUATION

EXAMINATION

FAILURE ANALYSIS

FIGURE OF MERIT

#FORECASTING

MANAGEMENT ANALYSIS

MULTIVARIATE STATISTICAL ANALYSIS

NETWORK ANALYSIS

PHOTOINTERPRETATION

POSTFLIGHT ANALYSIS

PREDICTION ANALYSIS TECHNIQUES

PREFLIGHT ANALYSIS

RELIABILITY ANALYSIS

SIGNAL ANALYSIS

SIGNATURE ANALYSIS

SPECTRUM ANALYSIS

#STATISTICAL ANALYSIS

STRESS ANALYSIS

#STRUCTURAL ANALYSIS

SYSTEMS ANALYSIS

TERRAIN ANALYSIS

TRAJECTORY ANALYSIS

WEIGHT ANALYSIS

X RAY ANALYSIS

## ANAPHYLAXIS

0404 0405 0408

RT SENSITIZING

## ANASTIGMATISM

0404 0405 0408

RT OPTOMETRY

VISION

## ANATASE

0603 1804

UP OCTAHEDRITE

BT #CHALCOGENIDES

METAL OXIDES

OXIDES

#TITANIUM COMPOUNDS

TITANIUM OXIDES

## RT

#MINERALS

PIGMENTS

RUTILE

## #ANATOMY

0402 0404

NT ADRENAL GLAND

AORTA

ARM (ANATOMY)

ARTERIES

BARORECEPTORS

BLADDER

BLOOD VESSELS

BONES

BRAIN

BRAIN STEM

BRONCHI

BRONCHIAL TUBE

CAPILLARIES (ANATOMY)

CARDIAC AURICLES

CARDIAC VENTRICLES

CARDIOVASCULAR SYSTEM

CARTILAGE

CEREBELLUM

CEREBRAL CORTEX

CEREBRUM

## CHEMORECEPTORS

CHEST

CHIN

CHOROID MEMBRANES

CIRCULATORY SYSTEM

COCHLEA

COLLAGENS

CONGENERS

CONJUNCTIVA

CONNECTIVE TISSUE

CONSTRUCTORS

CORNEA

CORPUSCLES

CORTI ORGAN

CRANIUM

DIAPHRAGM (ANATOMY)

DIASTOLE

EAR

EARDRUMS

ELBOW (ANATOMY)

ENDOCRINE GLANDS

EOSINOPHILS

EPICARDIUM

ERYTHROCYTES

ESOPHAGUS

EUSTACHIAN TUBES

EYE (ANATOMY)

FEMUR

FINGERS

FLEXORS

FOREARM

FOVEA

GENITOURINARY SYSTEM

GLANDS (ANATOMY)

GLOMERULUS

GONADS

GRAVIRECEPTORS

HAND (ANATOMY)

HEAD (ANATOMY)

HEART

HEMATOPOIESIS

HEMATOPOIETIC SYSTEM

HIPPOCAMPUS

HUMAN BODY

INTRACRANIAL CAVITY

JOINTS (ANATOMY)

KIDNEYS

KNEE (ANATOMY)

LABYRINTH

LEG (ANATOMY)

LEUKOCYTES

LIMBS (ANATOMY)

LIVER

LUNGS

LYMPHOCYTES

MAMMARY GLANDS

MARROW

MASTOIDS

MECHANORECEPTORS

MIDDLE EAR

MUSCULOSKELETAL SYSTEM

MYOCARDIUM

NECK (ANATOMY)

NOSE (ANATOMY)

OCCIPITAL LOBES

OCULOMOTOR NERVES

ORGANS

OTOLITH ORGANS

OVARIES

PANCREAS

PARATHYROID GLAND

PELVIS

PHARYNX

PHOTORECEPTORS

PINEAL GLAND

PITUITARY GLAND

PROPRIOCEPTORS

PROSTATE GLAND

PUPILS

RESPIRATORY SYSTEM

RETICULOCYTES

RETINA

SALIVARY GLANDS

SCAPULA

SCIATIC REGION

SEBACEOUS GLANDS

SEMICIRCULAR CANALS

SENSE ORGANS

SEX GLANDS

SKULL

SPLEEN

STERNUM

## ANELASTICITY

## STOMACH

SYSTOLE

TESTES

THERMORECEPTORS

THIGH

THROMBIN

THROMBOPLASTIN

THYROID GLAND

THYROID GLAND

TIBIA

TORSO

TRACHEA

ULNA

UTERUS

VASCULAR SYSTEM

VEINS

VERTEBRAE

VERTEBRAL COLUMN

VESTIBULES

WRIST

## RT

#APPENDAGES

BIODYNAMICS

DIFFERENTIATION

DIFFERENTIATION (BIOLOGY)

DORSAL SECTIONS

EPITHELIUM

MORPHOLOGY

POSTERIOR SECTIONS

## ANCHORS (FASTENERS)

2103

## BT

#FASTENERS

## RT

BANDS

BOLTS

BRACKETS

CLIPS

COUPLINGS

GUY WIRES

HOLDERS

MOORING

NUTS (FASTENERS)

SCREWS

STRAPS

STUDS (STRUCTURAL MEMBERS)

TETHERLINES

## ANDESITE

1805 1806

## BT

#ALUMINUM COMPOUNDS

ALUMINUM SILICATES

IGNEOUS ROCKS

#MINERALS

ROCKS

SILICATES

#SILICON COMPOUNDS

## RT

FELDSPARS

## ANDROMEDA

3001

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

## RT

ANDROMEDA CONSTELLATION

ANDROMEDA GALAXIES

## ANDROMEDA CONSTELLATION

3001

## BT

CONSTELLATIONS

## RT

ANDROMEDA

ANDROMEDA GALAXIES

## ANDROMEDA GALAXIES

3001

## BT

#CELESTIAL BODIES

GALAXIES

## RT

ANDROMEDA

ANDROMEDA CONSTELLATION

SPIRAL GALAXIES

## ANECHOIC CHAMBERS

1108 2301

## BT

#COMPARTMENTS

TEST CHAMBERS

#TEST FACILITIES

## RT

ACOUSTIC ATTENUATION

ACOUSTIC MEASUREMENTS

ACOUSTICS

CHAMBERS

ZERO SOUND

## ANELASTICITY

1202 1704 2308 2601 3408

## BT

ELASTIC PROPERTIES

#MECHANICAL PROPERTIES

## RT

CREEP PROPERTIES

INTERNAL FRICTION

MODULUS OF ELASTICITY

STRESS RELAXATION



# ANEMIAS

ANEMIAS  
0404 0405 0406  
BT #DISEASES  
RT ADDISON'S DISEASE  
BLOOD  
CORPUSCLES  
HEMATOCRIT RATIO  
HEMOGLOBIN  
ANEMOMETERS  
1203 1406 1408  
NT HOT-FILM ANEMOMETERS  
HOT-WIRE ANEMOMETERS  
SONIC ANEMOMETERS  
BT #AIRCRAFT INSTRUMENTS  
#DISPLAY DEVICES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
SPEED INDICATORS  
RT FLOW MEASUREMENT  
METEOROLOGICAL INSTRUMENTS  
VELOCITY MEASUREMENT  
#WIND (METEOROLOGY)  
WIND MEASUREMENT  
WIND VANES  
WIND VELOCITY  
WIND VELOCITY MEASUREMENT  
ANEMOMETRY  
USE VELOCITY MEASUREMENT  
ANESTHESIA  
0405 0408  
NT ELECTROANESTHESIA  
RT ANALGESIA  
HYPNOSIS  
SENSORY PERCEPTION  
#UNCONSCIOUSNESS  
ANESTHESIOLOGY  
0404 0405  
BT #MEDICAL SCIENCE  
RT CHLOROFORM  
CLINICAL MEDICINE  
DEPRESSANTS  
DIAGNOSIS  
#DRUGS  
PHARMACOLOGY  
ANESTHETICS  
0405  
NT CHLOROFORM  
CYCLOPROPANE  
NOVOCAIN  
XYLOCAINE  
BT #DRUGS  
RT ETHERS  
ANGELS  
0705  
BT #ECHOES  
RADAR ECHOES  
RT GLINT  
RADAR CROSS SECTIONS  
RADIO ECHOES  
ANGIOSPERMS  
0409  
RT GRAINS (FOOD)  
NUTS (FRUITS)  
#PLANTS (BOTANY)  
VEGETABLES  
ANGLE OF ATTACK  
0101 1202  
NT ZERO ANGLE OF ATTACK  
BT ANGLES (GEOMETRY)  
RT #AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC STALLING  
BOUNDARY LAYER SEPARATION  
LIFT  
SWEEP ANGLE  
ANGLES (GEOMETRY)  
1902 1904  
UP APSIDAL ANGLES  
REENTRY ANGLE  
NT ANGLE OF ATTACK  
BRAGG ANGLE  
BREWSTER ANGLE  
DIHEDRAL ANGLE  
ELEVATION ANGLE  
SWEEP ANGLE  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT ANGULAR RESOLUTION  
APSIDES  
AZIMUTH  
COMPLEMENTS (MATHEMATICS)  
CORNERS  
ELONGATION

GONIOMETERS  
GRADE  
#GRADIENTS  
INCIDENCE  
PHASE SHIFT  
PHOTOGONIOMETERS  
PITCH (INCLINATION)  
PROFILES  
PROTRACTORS  
RECIPROCAL THEOREMS  
SLOPES  
SWEEPBACK  
TRIANGULATION  
TRIGONOMETRY  
ANGOLA  
1305  
RT AFRICA  
NATIONS  
PORTUGAL  
ANGULAR ACCELERATION  
2308 2311  
BT ACCELERATION (PHYSICS)  
#RATES (PER TIME)  
RT CENTRIFUGAL FORCE  
CENTRIPETAL FORCE  
DECELERATION  
ROTATION  
SPIN REDUCTION  
TRANSVERSE ACCELERATION  
YO-YO DEVICES  
ANGULAR CORRELATION  
1902 2308 2311 2405 2901 3009  
BT CORRELATION  
RT ANGULAR DISTRIBUTION  
DATA CORRELATION  
MATTERS (SYSTEMS)  
VIEW EFFECTS  
ANGULAR DISTRIBUTION  
2405 3006  
BT #DISTRIBUTION (PROPERTY)  
RT ANGULAR CORRELATION  
ELECTRON DENSITY PROFILES  
#ELEMENTARY PARTICLE INTERACTIONS  
FLUX DENSITY  
FORCE DISTRIBUTION  
MASS DISTRIBUTION  
MOMENT DISTRIBUTION  
NUCLEAR SCATTERING  
STAR DISTRIBUTION  
ANGULAR MOMENTUM  
2308 2311 2401 2405 3006  
BT MOMENTUM  
RT #CLASSICAL MECHANICS  
CLEBSCH-GORDAN COEFFICIENTS  
ELECTRON SPIN  
KINETICS  
MOMENTS OF INERTIA  
PARTICLE SPIN  
QUANTUM NUMBERS  
QUANTUM THEORY  
RACAH COEFFICIENT  
REGGE POLES  
#SPIN  
SPIN TESTS  
STELLAR ROTATION  
WIGNER COEFFICIENT  
ANGULAR MOTION  
USE ANGULAR VELOCITY  
ANGULAR RESOLUTION  
1411 1412 1413 2306 2310 2402  
BT #RESOLUTION  
RT ACCURACY  
ANGLES (GEOMETRY)  
HIGH RESOLUTION  
OPTICS  
RADAR RESOLUTION  
ANGULAR VELOCITY  
2308 2311  
UP ANGULAR MOTION  
BT #RATES (PER TIME)  
VELOCITY  
RT #GYRATION  
ORBITAL VELOCITY  
REVOLVING  
ROTATION  
ROTOR SPEED  
TACHOMETERS  
TIP SPEED  
ANHYDRIDES  
0603 1704 1805  
NT PEROXIDES  
SODIUM PEROXIDES

# NASA THESAURUS (ALPHABETICAL LISTING)

BT OXIDES  
RT #ACIDS  
BASES (CHEMICAL)  
ANILINE  
0403 0603 1808  
BT #AMINES  
RT DYES  
#ANIMALS  
0402 0404  
UP METAZOA  
NT AMOEBA  
AMPHIBIA  
ARTEMIA  
ARTHROPODS  
BABOONS  
BATS  
BEES  
BEETLES  
BIRDS  
CALVES  
CATS  
CATTLE  
CEPHALPODS  
CERCOCEBUS MONKEYS  
CHICKENS  
CHIMPANZEES  
CHIRONOMUS FLIES  
COCKROACHES  
COLEOPTERA  
COLPIDIA  
CRABS  
CRICKETS  
DEER  
DOGS  
DOLPHINS  
DROSOPHILA  
FISHES  
FLAGELLATA  
FLATWORMS  
FROGS  
GOATS  
GRASSHOPPERS  
GROUND SQUIRRELS  
GUINEA PIGS  
HAMSTERS  
HORSES  
HUMAN BEINGS  
INSECTS  
INVERTEBRATES  
JERBOAS  
LIZARDS  
MAMMALS  
MANGABEYS  
MICE  
MICROSPORES  
MOLUSKS  
MONKEYS  
MOTHS  
OCTOPUSES  
OPOSSUM  
PARAMECIA  
PELONYXA  
PIGEONS  
POCKET MICE  
POIKILOthermia  
PORPOISES  
PRIMATE  
PROTOZOA  
RABBITS  
RATS  
REPTILES  
RODENTS  
ROTIFERA  
SEA URCHINS  
SHARKS  
SHEEP  
SHREWS  
SILKWORMS  
SNAILS  
SNAKES  
SPIDERS  
SPORES  
SQUIRRELS  
SWINE  
TRIBOLIA  
TRYPAONOSOME  
TURKEYS  
TURTLES  
VERTEBRATES  
WHALES  
WOLVERINES  
WOLVES

# NASA THESAURUS (ALPHABETICAL LISTING)

WORMS  
 RT #MICROORGANISMS  
 ORGANISMS  
 PARASITES  
 PLANKTON  
 #PLANTS (BOTANY)  
 POIKILOthermia  
 VIABILITY  
 ZOOLOGY  
 ANIMATION  
 USE MOTION  
 ANIONS  
 0603 1804 2304  
 BT CHARGED PARTICLES  
 #IONS  
 #PARTICLES  
 RT ANODES  
 CATIONS  
 CELL ANODES  
 IONIC MOBILITY  
 ANISOLE  
 0403 1808  
 BT #ETHERS  
 #HETEROCYCLIC COMPOUNDS  
 ANISOTROPIC FLUIDS  
 0101 1202 1308 1703 1805 2311 2502  
 BT ANISOTROPIC MEDIA  
 #MEDIA  
 RT #ANISOTROPY  
 FLUIDS  
 INVARIANT IMBEDDINGS  
 ISOTROPY  
 LIQUID CRYSTALS  
 NEWTONIAN FLUIDS  
 ANISOTROPIC MEDIA  
 1202 1308 1703 1805 2311  
 NT ANISOTROPIC FLUIDS  
 BT #MEDIA  
 RT #ANISOTROPY  
 BIREFRINGENCE  
 BIREFRINGENT COATINGS  
 HOMOGENEITY  
 ISOTROPIC MEDIA  
 MATERIALS  
 POLARIZATION (WAVES)  
 ANISOTROPIC PLATES  
 1703 1805 2311  
 UP NONISOTROPIC PLATES  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT CANTILEVER PLATES  
 END PLATES  
 PERFORATED PLATES  
 REINFORCED PLATES  
 ANISOTROPIC SHELLS  
 1703 1805 2311  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT CORRUGATED SHELLS  
 ELASTIC SHELLS  
 REINFORCED SHELLS  
 #ANISOTROPY  
 1202 2311 3203 3408  
 UP NONISOTROPY  
 ONISOTROPY  
 PHOTOTHERMOTROPISM  
 THERMOTROPISM  
 RT ELASTIC ANISOTROPY  
 PLASTIC ANISOTROPY  
 AEOLOTROPISM  
 ANISOTROPIC FLUIDS  
 ANISOTROPIC MEDIA  
 BIREFRINGENCE  
 CRYSTAL STRUCTURE  
 #CRYSTALS  
 DIRECTIVITY  
 ISOTROPY  
 #MECHANICAL PROPERTIES  
 METALLOGRAPHY  
 POLARIZATION (SPIN ALIGNMENT)  
 POLARIZATION (WAVES)  
 SPATIAL DISTRIBUTION  
 ANNA HURRICANE  
 2003  
 BT CYCLONES  
 HURRICANES  
 #STORMS  
 STORMS (METEOROLOGY)  
 TROPICAL STORMS  
 ANNA SATELLITES  
 1304 3107 3110  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES

GEODETIC SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 BT EXPLORER 29 SATELLITE  
 EXPLORER 36 SATELLITE  
 GEOS-C SATELLITE  
 GEOS 1 SATELLITE  
 GEOS 2 SATELLITE  
 ANNEALING  
 1504 1704 3304  
 NT PULSE HEATING  
 BT #HEAT TREATMENT  
 RT #HARDENING (MATERIALS)  
 #HEATING  
 NORMALIZING (HEAT TREATMENT)  
 RECRYSTALLIZATION  
 SOFTENING  
 STRESS RELIEVING  
 TEMPERING  
 ANNIHILATION REACTIONS  
 2403 2405  
 NT POSITRON ANNIHILATION  
 BT #NUCLEAR REACTIONS  
 RT ANTIPARTICLES  
 HIGH ENERGY INTERACTIONS  
 PHOTONS  
 PROTON-PROTON REACTIONS  
 ANNOTATIONS  
 3407  
 RT ABSTRACTS  
 INFORMATION  
 SUMMARIES  
 ANNUAL VARIATIONS  
 1308 2003 2903 3009  
 UP SEASONAL VARIATIONS  
 BT PERIODIC VARIATIONS  
 #VARIATIONS  
 RT ATMOSPHERIC CIRCULATION  
 #CYCLES  
 MAGNETIC VARIATIONS  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 MONSOONS  
 SEASONS  
 WEATHER  
 WIND VARIATIONS  
 ANNUAL CORE PULSE REACTORS  
 2203 2204  
 BT #NUCLEAR REACTORS  
 RT NUCLEAR ENERGY  
 NUCLEAR FUEL ELEMENTS  
 NUCLEAR FUELS  
 REACTOR CORES  
 REACTOR DESIGN  
 REACTOR MATERIALS  
 REACTOR PHYSICS  
 REACTOR SAFETY  
 REACTOR TECHNOLOGY  
 REACTORS  
 ANNUAL FLOW  
 1202 1203  
 UP ANNUAL JETS  
 BT AXISYMMETRIC FLOW  
 #FLUID FLOW  
 RT ANNUAL NOZZLES  
 ANNULI  
 AXIAL FLOW  
 CHANNEL FLOW  
 COAXIAL FLOW  
 COUETTE FLOW  
 FLOW  
 FLOW GEOMETRY  
 HEAT TRANSMISSION  
 NOZZLE FLOW  
 ONE DIMENSIONAL FLOW  
 TURBULENT FLOW  
 ANNUAL JETS  
 USE ANNUAL FLOW  
 JET FLOW  
 ANNUAL NOZZLES  
 1202 1504  
 RT ANNUAL FLOW  
 ANNULI  
 COAXIAL FLOW  
 CONICAL NOZZLES  
 EXHAUST NOZZLES  
 INLET NOZZLES  
 NOZZLES  
 PLUG NOZZLES  
 ROCKET NOZZLES  
 SHROUDED NOZZLES  
 SPRAY NOZZLES

## ANTENNA ARRAYS

ANNULAR PLATES  
 3202 3203  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT ANNULI  
 CIRCULAR PLATES  
 FLAT PLATES  
 ANNULI  
 1202 1504 1902  
 RT ANALYTIC GEOMETRY  
 ANNULAR FLOW  
 ANNULAR NOZZLES  
 ANNULAR PLATES  
 FLOW MEASUREMENT  
 RINGS  
 ANODES  
 0604 0904 0905 0906 1504 2304  
 NT CELL ANODES  
 TUBE ANODES  
 BT #ELECTRODES  
 RT #ACCUMULATORS  
 ANIONS  
 CATHODES  
 ANODIC COATINGS  
 0603 1802  
 BT #COATINGS  
 INORGANIC COATINGS  
 PROTECTIVE COATINGS  
 RT ANODIZING  
 OXIDES  
 ANODIZING  
 0603 1704 1802  
 BT COATING  
 RT #DEPOSITION  
 ANODIC COATINGS  
 PASSIVITY  
 PROTECTIVE COATINGS  
 ANOLYTES  
 0603 0604 1202  
 BT #CONDUCTORS  
 ELECTROLYTES  
 RT CATHOLYTES  
 CELL ANODES  
 ANOMALIES  
 USE #ABNORMALITIES  
 ANORTHOSITE  
 1806  
 BT IGNEOUS ROCKS  
 ROCKS  
 RT FELDSPARS  
 ANOXIA  
 0401 0408  
 RT ASPHYXIA  
 HYPOXIA  
 #STRESS (PHYSIOLOGY)  
 ANTARCTIC REGIONS  
 1305  
 UP ANTARCTICA  
 NT ECHURDO SOUND  
 ROSS ICE SHELF  
 BT POLAR REGIONS  
 #REGIONS  
 #SOUTHERN HEMISPHERE  
 RT CLIMATOLOGY  
 #CONTINENTS  
 LAND ICE  
 POLAR CAPS  
 ANTARCTICA  
 USE ANTARCTIC REGIONS  
 ANTARES ROCKET VEHICLE  
 3101 3106 3108 3401  
 BT MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT ATMOSPHERIC IONIZATION  
 SOLID PROPELLANT ROCKET ENGINES  
 X-254 ENGINE  
 ANTELOPE MISSILE  
 3101 3106 3401  
 BT #MISSILES  
 ANTENNA ARRAYS  
 0701 0901  
 NT ENDPIRE ARRAYS  
 INERTIALLESS STEERABLE ANTENNAS  
 LINEAR ARRAYS  
 STEERABLE ANTENNAS  
 TURNSTILE ANTENNAS  
 YAGI ANTENNAS  
 BT #ARRAYS  
 RT ANTENNAS  
 DIPOLE ANTENNAS  
 DIRECTIONAL ANTENNAS

# ANTENNA COMPONENTS

LOG PERIODIC ANTENNAS  
MICROWAVE ANTENNAS  
PHASED ARRAYS  
RETROREFLECTION

ANTENNA COMPONENTS  
0701 0901  
NT ANTENNA COUPLERS  
ANTENNA FEEDS  
COUPLERS  
RT ANTENNA DESIGN  
#COMMUNICATION EQUIPMENT  
COMPONENTS  
#COUPLERS  
#ELECTRONIC EQUIPMENT

ANTENNA COUPLERS  
0901  
NT COUPLING CIRCUITS  
DIPLEXERS  
BT ANTENNA COMPONENTS  
#COUPLERS  
RT ANTENNAS  
COUPLES  
COUPLING  
ENERGY TRANSFER  
IMPEDANCE MATCHING  
MICROWAVE COUPLING  
#TRANSMISSION LINES

ANTENNA DESIGN  
0701 0901  
RT ANTENNA COMPONENTS  
ANTENNA RADIATION PATTERNS  
ANTENNAS  
BACKLOBES  
CASSEGRAIN ANTENNAS  
DELTA ANTENNAS  
DESIGN  
DIPOLE ANTENNAS  
HELICAL ANTENNAS  
HORN ANTENNAS  
LENS ANTENNAS  
LOBES  
LOG PERIODIC ANTENNAS  
MONOPOLE ANTENNAS  
PARABOLIC ANTENNAS  
PRODUCT DEVELOPMENT  
RHOMBIC ANTENNAS  
SIDELOBES  
SLOT ANTENNAS  
SPIRAL ANTENNAS  
YAGI ANTENNAS

ANTENNA FEEDS  
0901  
UP FEEDING DEVICES  
BT ANTENNA COMPONENTS  
RT STRIP TRANSMISSION LINES  
#TRANSMISSION LINES  
WAVEGUIDES

ANTENNA FIELDS  
USE ANTENNA RADIATION PATTERNS  
ANTENNA RADIATION PATTERNS  
0901  
UP ANTENNA FIELDS  
NT SIDELOBES  
BT #DISTRIBUTION (PROPERTY)  
RADIATION DISTRIBUTION  
RT ANTENNA DESIGN  
ANTENNAS  
BACKLOBES  
CYLINDRICAL ANTENNAS  
DIRECTIONAL ANTENNAS  
FANS  
PAR FIELDS  
FIELD THEORY (PHYSICS)  
FRESNEL REGION  
LOBES  
ROSETTE SHAPES  
SCHELKUNOFF PRINCIPLE  
SONMERFELD APPROXIMATION  
SUPPORT INTERFERENCE  
SYNTHETIC ARRAYS

ANTENNAS  
0701 0901  
UP SELF ERECTING ANTENNAS  
NT AIRCRAFT ANTENNAS  
CASSEGRAIN ANTENNAS  
CYLINDRICAL ANTENNAS  
DELTA ANTENNAS  
DIPOLE ANTENNAS  
DIRECTIONAL ANTENNAS  
FURLABLE ANTENNAS  
HELICAL ANTENNAS  
HORN ANTENNAS

INERTIALESS STEERABLE ANTENNAS  
LENS ANTENNAS  
LOG PERIODIC ANTENNAS  
LOG SPIRAL ANTENNAS  
LOOP ANTENNAS  
MICROWAVE ANTENNAS  
MISSILE ANTENNAS  
MONOPOLE ANTENNAS  
MONOPULSE ANTENNAS  
MULTIPLE BEAM INTERVAL SCANNERS  
OMNIDIRECTIONAL ANTENNAS  
PARABOLIC ANTENNAS  
RADANT  
RADAR ANTENNAS  
RADIO ANTENNAS  
RHOMBIC ANTENNAS  
SATELLITE ANTENNAS  
SCHWARZSCHILD ANTENNAS  
SLOT ANTENNAS  
SPACECRAFT ANTENNAS  
SPHERICAL ANTENNAS  
SPIRAL ANTENNAS  
STEERABLE ANTENNAS  
TURNSTILE ANTENNAS  
TWO REFLECTOR ANTENNAS  
WAVEGUIDE ANTENNAS  
WHIP ANTENNAS  
YAGI ANTENNAS

BT #CONDUCTORS  
RT ANTENNA ARRAYS  
ANTENNA COUPLERS  
ANTENNA DESIGN  
ANTENNA RADIATION PATTERNS  
#ARRAYS  
#CONDUCTORS  
CORNERS  
CURRENT SHEETS  
#ELECTROMAGNETIC RADIATION  
FOLDING STRUCTURES  
RADIATORS  
#RADIO EQUIPMENT  
RADIO TELESCOPES  
#REFLECTORS  
SLEWING  
#TELECOMMUNICATION  
#TELESCOPES  
TOWERS  
#TRANSMITTERS

ANTHELMINTICS  
0405  
BT #DRUGS  
RT PARASITIC DISEASES

ANTHEUS AIRCRAFT  
USE AN-22 AIRCRAFT

ANTHRACENE  
0403 0603 1808  
BT #ALIPHATIC COMPOUNDS  
CYCLIC HYDROCARBONS  
#HYDROCARBONS  
RT ANTHRAQUINONES  
PHENANTHRENE

ANTHRAQUINONES  
0403 1808 3404  
BT #ALIPHATIC COMPOUNDS  
KETONES  
RT ANTHRACENE  
DYES

ANTHROPOLOGY  
0404 3402  
RT ABORIGINES  
ANTHROPOMETRY  
ARTIFACTS  
CASE HISTORIES  
CITIES  
CULTURE (SOCIAL SCIENCES)  
ESKIMOS  
HUMAN BEINGS  
MINORITIES  
MUSEUMS  
RACE FACTORS  
RACES  
SOCIAL FACTORS  
SOCIOLOGY

ANTHROPOMETRY  
0404  
BT #BIOENGINEERING  
BIOMETRICS  
BODY MEASUREMENT (BIOLOGY)  
RT ANTHROPOLOGY  
BODY SIZE (BIOLOGY)  
ENGINEERING  
HUMAN FACTORS ENGINEERING

# NASA THESAURUS (ALPHABETICAL LISTING)

ANTIADRENERGICS  
0403 0405  
BT #DRUGS  
RT ADRENERGICS

ANTI-AIRCRAFT MISSILES  
3101 3401  
NT BONARC MISSILES  
FALCON MISSILE  
MAULER MISSILE  
NIKE-AJAX MISSILE  
NIKE-HERCULES MISSILE  
REDEYE MISSILE  
SEACAT MISSILE  
SEASLUG MISSILE  
SIDEWINDER MISSILES  
TARTAR MISSILE  
TERRIER MISSILE  
THUNDERBIRD MISSILE

BT #MISSILES  
RT AIR TO AIR MISSILES  
ANTI-MISSILE MISSILES  
NIKE MISSILES  
RAMJET MISSILES  
SURFACE TO AIR MISSILES

ANTIBIOTICS  
0403 0405 0407 1808  
NT ACTINOMYCIN  
PENICILLIN  
PLEUROTIN  
STREPTOMYCIN  
TETRACYCLINES  
BT #DRUGS  
RT ANTI-INFECTIONS AND ANTIBACTERIALS  
#MICROORGANISMS  
#STERIODS

ANTIBODIES  
0403 0405 1808  
NT GAMMA GLOBULIN  
RT ANTISERUMS  
IMMUNOLOGY  
INOCULUM  
PHYSIOLOGICAL DEFENSES  
VACCINES

ANTICHOLINERGICS  
0403 0405  
UP CHOLINERGIC BLOCKING AGENTS  
BT CHOLINERGICS  
#DRUGS  
RT CURARE

ANTICOAGULANTS  
0403 0405 1808  
RT ADRENERGICS  
AGENTS  
HEPARINS  
PRESERVATIVES  
STABILIZERS (AGENTS)

ANTICONSULSANTS  
0401 0405  
BT #DRUGS  
RT HEXAMETHONIUM

ANTICYCLONES  
2003  
RT AIR MASSES  
ATMOSPHERIC PRESSURE  
BLATON FORMULA  
CYCLONES  
HIGH PRESSURE  
#METEOROLOGY  
SYNOPTIC METEOROLOGY

ANTI-DIURETICS  
0401 0404 0405  
BT #DRUGS  
RT URINE

ANTIDOTES  
0405  
BT #DRUGS  
RT ANTIHISTAMINES  
INHIBITORS

ANTIEMETICS AND ANTINAUSEANTS  
0405  
BT #DRUGS  
RT NAUSEA

ANTI-FERROELECTRICITY  
1804 2304 2305 3408  
BT #ELECTRICAL PROPERTIES  
RT DIELECTRIC PROPERTIES  
FERROELECTRICITY  
HYSTERESIS  
POLARIZATION

ANTI-FERROMAGNETISM  
1804 2305 2307 3408  
BT #MAGNETIC PROPERTIES

# NASA THESAURUS (ALPHABETICAL LISTING)

**RT** FERROMAGNETISM  
 HYSTERESIS  
 MAGNETIC SWITCHING  
 MAGNONS  
 NEEL TEMPERATURE  
 PARAMAGNETISM  
**ANTIFREEZES**  
 0603 1504  
**BT** #ADDITIVES  
**RT** ANTIICING ADDITIVES  
 FREEZING  
**ANTIFRICTION BEARINGS**  
 1501 1503  
**UF** ROLLING CONTACT BEARINGS  
**NT** BALL BEARINGS  
 ROLLER BEARINGS  
**BT** #BEARINGS  
**RT** FRICTION REDUCTION  
 GAS BEARINGS  
 JOURNAL BEARINGS  
 NEEDLE BEARINGS  
 ROLLING CONTACT LOADS  
 THRUST BEARINGS  
**ANTIGENS**  
 0403 0405 0408  
**RT** IMMUNOLOGY  
 INOCULUM  
 PHYSIOLOGICAL DEFENSES  
 RHESUS FACTOR  
 VACCINES  
**ANTIGRAVITY**  
 1307 1309 2308  
**RT** GRAVITATION  
 REDUCED GRAVITY  
**ANTIHISTAMINICS**  
 0403 0405 1808  
**NT** DIMENHYDRINATE  
 DIPHENYL HYDANTOIN  
 METHAPYRILENE  
 PROMETHAZINE  
**BT** #DRUGS  
**RT** HISTAMINES  
**ANTIHYPERTENSIVE AGENTS**  
 0401 0405  
**BT** #DRUGS  
**RT** RESERPINE  
**ANTIICING ADDITIVES**  
 0201 1504  
**BT** #ADDITIVES  
**RT** ANTIFREEZES  
 DEICERS  
 DEICING  
 FUEL CONTAMINATION  
 ICE PREVENTION  
 INHIBITORS  
 PROPELLANT ADDITIVES  
 RETARDANTS  
**ANTIINFECTIVES AND ANTIBACTERIALS**  
 0403 0405 0407 0412  
**BT** #DRUGS  
**RT** ANTIBIOTICS  
 ANTISEPTICS  
 BACTERICIDES  
 CONTAMINATION  
 #FUNGICIDES  
**ANTIKNOCK ADDITIVES**  
 0202 0603 1101 1103 3301  
**BT** #ADDITIVES  
**RT** GASOLINE  
 RETARDANTS  
**#ANTIMATTER**  
 2311 2401 2403  
**NT** ANTINEUTRINOS  
 ANTINUCLEONS  
 ANTIPARTICLES  
 ANTIPROTONS  
 POSITRONS  
**RT** MATTER (PHYSICS)  
**ANTIMISSILE DEFENSE**  
 0202 0207 3101 3401  
 (PROTECTION AGAINST MISSILE ATTACK)  
**BT** AIR DEFENSE  
**RT** ANTIMISSILE MISSILES  
 CIVIL DEFENSE  
 DEFENSE  
 DEFENSE INDUSTRY  
 MILITARY TECHNOLOGY  
 MISSILE DEFENSE  
 #MISSILES  
 SAFEGUARD SYSTEM  
 SENTINEL SYSTEM  
 SPACE SURVEILLANCE (GROUND BASED)

SPACE SURVEILLANCE (SPACEBORNE)  
**ANTIMISSILE MISSILES**  
 3101 3401  
**NT** MAULER MISSILE  
 NIKE-ZEUS MISSILE  
 SPRINT MISSILE  
**BT** #MISSILES  
**RT** ANTI-AIRCRAFT MISSILES  
 ANTIMISSILE DEFENSE  
 BALLISTIC MISSILES  
 INFRARED TRACKING  
 MISSILE DEFENSE  
 NIKE MISSILES  
 NIKE X SYSTEMS  
 SENTINEL SYSTEM  
 SPACE WEAPONS  
 SURFACE TO AIR MISSILES  
**ANTIMONIDES**  
 0603 1804  
**NT** ALUMINUM ANTIMONIDES  
 CADMIUM ANTIMONIDES  
 CESIUM ANTIMONIDES  
 GALLIUM ANTIMONIDES  
 GERMANIUM ANTIMONIDES  
 INDIUM ANTIMONIDES  
 ZINC ANTIMONIDES  
**BT** #ANTIMONY COMPOUNDS  
**ANTIMONY**  
 0603 1703  
**BT** #CHEMICAL ELEMENTS  
 #METALS  
**ANTIMONY ALLOYS**  
 1701  
**BT** #ALLOYS  
**RT** MULBERRY (ALLOY)  
**#ANTIMONY COMPOUNDS**  
 0603 1804  
**NT** ALUMINUM ANTIMONIDES  
 ANTIMONIDES  
 ANTIMONY FLUORIDES  
 CADMIUM ANTIMONIDES  
 CESIUM ANTIMONIDES  
 GALLIUM ANTIMONIDES  
 GERMANIUM ANTIMONIDES  
 INDIUM ANTIMONIDES  
 ZINC ANTIMONIDES  
**RT** GROUP 5A COMPOUNDS  
**ANTIMONY FLUORIDES**  
 0603 1804  
**BT** #ANTIMONY COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
**ANTIMONY ISOTOPIES**  
 0603 1703 2406  
**BT** ISOTOPIES  
**ANTINEUTRINOS**  
 2401 2403 2405  
**BT** #ANTIMATTER  
 ANTIPARTICLES  
 ELEMENTARY PARTICLES  
 FERMIONS  
 LEPTONS  
 NUCLEAR PARTICLES  
 #PARTICLES  
**RT** CHARGED PARTICLES  
 NEUTRINOS  
**ANTINODES**  
 0710 1904 2311 3006  
**RT** NODES (STANDING WAVES)  
 RAREFACTION  
 RESONANT FREQUENCIES  
 STANDING WAVES  
 #VIBRATION  
 WAVELENGTHS  
**ANTINUCLEONS**  
 2403 2404  
**BT** #ANTIMATTER  
 ANTIPARTICLES  
 ELEMENTARY PARTICLES  
 NUCLEAR PARTICLES  
 #PARTICLES  
**RT** NUCLEONS  
**ANTIOXIDANTS**  
 0403 0603 1808  
**BT** #ADDITIVES  
**RT** AGENTS  
 CORROSION PREVENTION  
 INHIBITORS  
 PRESERVATIVES  
 PROPELLANT ADDITIVES

## ANTISUBMARINE WARFARE

RETARDANTS  
 STABILIZERS (AGENTS)  
**ANTIPARTICLES**  
 2401 2403 2405  
**NT** ANTINEUTRINOS  
 ANTINUCLEONS  
 ANTIPROTONS  
 POSITRONS  
**BT** #ANTIMATTER  
 ELEMENTARY PARTICLES  
 NUCLEAR PARTICLES  
 #PARTICLES  
**RT** ANNIHILATION REACTIONS  
 CHARGED PARTICLES  
 HYPERONS  
 POMERANCHUK THEOREM  
 POSITRON ANNIHILATION  
**ANTIPODES**  
 1304 1307 1308  
**RT** APSIDES  
 ZENITH  
**ANTIPROTONS**  
 2401 2403 2405  
**BT** #ANTIMATTER  
 ANTIPARTICLES  
 CHARGED PARTICLES  
 ELEMENTARY PARTICLES  
 #IONS  
 NUCLEAR PARTICLES  
 #PARTICLES  
**RT** PROTONS  
**ANTIRADAR COATINGS**  
 1802 3401  
**UF** RADAR ABSORBING MATERIALS  
**BT** #COATINGS  
 #COUNTERMEASURES  
 ELECTRONIC COUNTERMEASURES  
**RT** INORGANIC COATINGS  
 PLASTIC COATINGS  
 RADAR ABSORBERS  
 RAM  
**ANTIRADIATION DRUGS**  
 0405 0409  
**UF** RADIOPROTECTIVE AGENTS  
**BT** #DRUGS  
**RT** RADIATION MEDICINE  
 RADIATION PROTECTION  
 RADIATION SICKNESS  
 RADIOBIOLOGY  
 RADIOPATHOLOGY  
**ANTISEPTICS**  
 0401 0405  
**UF** DISINFECTANTS  
**RT** ACRIFLAVINE  
 ANTINFECTIVES AND ANTIBACTERIALS  
 BACTERICIDES  
 CHEMICAL STERILIZATION  
 CHEMOTHERAPY  
 CLEANING  
 DECONTAMINATION  
 ENVIRONMENTAL CONTROL  
 FUMIGATION  
 INFECTIOUS DISEASES  
 PURIFICATION  
 STERILIZATION  
**ANTISERUMS**  
 0404 0405 0412  
**RT** ANTIBODIES  
 IMMUNOLOGY  
 SERUMS  
 VACCINES  
**ANTISKID DEVICES**  
 0203  
**RT** AIRCRAFT BRAKES  
 ARRESTING GEAR  
 AUTOMOBILES  
 #BRAKES (FOR ARRESTING MOTION)  
 DEVICES  
 #LANDING AIDS  
 SAFETY DEVICES  
 TRUCKS  
 WHEEL BRAKES  
**ANTISUBMARINE WARFARE**  
 3302 3401  
**BT** WARFARE  
**RT** ASROC ENGINE  
 MILITARY TECHNOLOGY  
 SONOBUOYS  
 SUBMARINES  
 TORPEDOES  
 UNDERWATER EXPLOSIONS  
 UNDERWATER TRAJECTORIES

# ANTISUBMARINE WARFARE AIRCRAFT

## ANTISUBMARINE WARFARE AIRCRAFT

0207 3401  
 NT CL-28 AIRCRAFT  
 CL-84 AIRCRAFT  
 P-3 AIRCRAFT  
 S-3 AIRCRAFT  
 SH-3 HELICOPTER  
 SH-4 HELICOPTER  
 RT ATTACK AIRCRAFT  
 BOMBER AIRCRAFT  
 DRONE AIRCRAFT  
 H-25 HELICOPTER  
 MILITARY AIRCRAFT  
 OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 SUBMERSIBLE AIRCRAFT  
 SUNDERLAND 5 FLYING BOAT  
 #V/STOL AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT

## ANTISYMMETRY

1902 2311 3203  
 RT ASYMMETRY  
 SYMMETRY

## ANTITANK MISSILES

3101 3401  
 NT SHILLELAGH MISSILES  
 BT #MISSILES  
 SURFACE TO SURFACE MISSILES

## ANTONOV AIRCRAFT

0201 0204  
 NT AN-2 AIRCRAFT  
 AN-22 AIRCRAFT  
 AN-24 AIRCRAFT  
 RT AIRCRAFT  
 ANTONOV AN-22 AIRCRAFT  
 USE AN-22 AIRCRAFT  
 ANTONOV AN-24 AIRCRAFT  
 USE AN-24 AIRCRAFT

## ANVILS

1704 2003  
 RT COMPRESSING  
 #TOOLS

## ANXIETY

0408 0410  
 NT FEAR OF FLYING  
 RT DETACHMENT  
 FEAR  
 PHOBIAS  
 TAYLOR MANIFEST ANXIETY SCALE

## AO-1 AIRCRAFT

USE OV-1 AIRCRAFT

## AORTA

0404  
 BT #ANATOMY  
 ARTERIES  
 BLOOD VESSELS  
 CARDIOVASCULAR SYSTEM  
 CIRCULATORY SYSTEM  
 VASCULAR SYSTEM  
 RT HEART

## AOSO

3001 3009 3107 3110 3409  
 UP ADVANCED ORBITING SOLAR OBSERVATORY  
 BT ARTIFICIAL SATELLITES  
 ASTRONOMICAL OBSERVATORIES  
 EARTH SATELLITES  
 #OBSERVATORIES  
 OSO  
 #SATELLITES  
 SOLAR OBSERVATORIES  
 #UNMANNED SPACECRAFT

## APACHE ROCKET VEHICLE

3106 3108  
 BT #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT SONDES

## APATITES

USE CALCIUM PHOSPHATES  
 #MINERALS

## APERIODIC FUNCTIONS

1902 1903  
 BT #ANALYSIS (MATHEMATICS)  
 #FUNCTIONS (MATHEMATICS)  
 RT COMPLEX VARIABLES  
 REAL VARIABLES

## APERTURES

0901 1407 1412 2310  
 NT IRISES (MECHANICAL APERTURES)  
 BT #OPENINGS  
 RT CAVITIES  
 DOORS  
 GATES (OPENINGS)

LOUVERS  
 ORIFICES  
 OUTLETS  
 PORTS (OPENINGS)  
 SLITS  
 SYNTHETIC ARRAYS  
 VENTS  
 WINDOWS (APERTURES)

## APEXES

1904 3006  
 UP VERTICES  
 BT ALTITUDE  
 APHELIONS  
 APOGEES  
 MAXIMA  
 #ORBITS  
 PEAKS  
 PLATEAUS  
 #TRAJECTORIES  
 ZENITH

## APHELIONS

1901 1904 3006  
 (APASTRONS IN THE SOLAR SYSTEM)  
 BT APSIDES  
 ELLIPTICAL ORBITS  
 #ORBITS  
 SOLAR ORBITS  
 RT APEXES  
 PERHELIONS

## APNEA

USE RESPIRATION

## APOGEES

1904 3006  
 BT APSIDES  
 EARTH ORBITS  
 ELLIPTICAL ORBITS  
 #ORBITS  
 RT APEXES  
 PERIGEEES

## APOLLO APPLICATIONS PROGRAM

3409  
 BT NASA PROGRAMS  
 #PROGRAMS  
 RT AAP 1 MISSION  
 AAP 2 MISSION  
 AAP 3 MISSION  
 AAP 4 MISSION  
 AIRLOCK MODULES  
 APOLLO EXTENSION SYSTEM  
 APOLLO PROJECT  
 APOLLO SPACECRAFT  
 APOLLO TELESCOPE MOUNT  
 EARTH RESOURCES PROGRAM  
 SATURN PROJECT  
 SATURN 1 WORKSHOP  
 SATURN 5 WORKSHOP  
 SATURN WORKSHOPS  
 SKYLAB PROGRAM  
 APOLLO EXTENSION SYSTEM

## 3409

RT APOLLO APPLICATIONS PROGRAM  
 APOLLO PROJECT  
 EXOBIOLOGY  
 EXTRAVEHICULAR ACTIVITY  
 LUNAR LANDING MODULES  
 MANNED SPACE FLIGHT  
 NASA PROGRAMS  
 ORBITAL WORKSHOPS

## APOLLO 5 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE  
 #LUNAR SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 6 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH

# NASA THESAURUS (ALPHABETICAL LISTING)

LUNAR MODULE  
 #LUNAR SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 7 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 MANNED SPACE FLIGHT  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE  
 #MANNED SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 8 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 MANNED SPACE FLIGHT  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE  
 #MANNED SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 9 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 MANNED SPACE FLIGHT  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE

## APOLLO 10 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 MANNED SPACE FLIGHT  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE  
 #MANNED SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 11 FLIGHT

3004 3104  
 BT APOLLO FLIGHTS  
 MANNED SPACE FLIGHT  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE  
 #MANNED SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 12 FLIGHT

3004 3104  
 BT MANNED SPACE FLIGHT  
 #SPACE FLIGHT  
 RT APOLLO SPACECRAFT  
 EARTH-MOON TRAJECTORIES  
 LUNAR EXPLORATION  
 LUNAR EXPLORATION SYSTEM FOR APOLLO  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR LAUNCH  
 LUNAR MODULE  
 #MANNED SPACECRAFT  
 MOON-EARTH TRAJECTORIES

## APOLLO 13 FLIGHT

3004 3104

# NASA THESAURUS (ALPHABETICAL LISTING)

BT MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT APOLLO SPACECRAFT  
EARTH-MOON TRAJECTORIES  
LUNAR EXPLORATION  
LUNAR EXPLORATION SYSTEM FOR APOLLO  
LUNAR FLIGHT  
LUNAR LANDING  
LUNAR LAUNCH  
LUNAR MODULE  
#MANNED SPACECRAFT  
MOON-EARTH TRAJECTORIES  
APOLLO 14 FLIGHT  
3004 3104  
BT MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT APOLLO SPACECRAFT  
EARTH-MOON TRAJECTORIES  
LUNAR EXPLORATION  
LUNAR EXPLORATION SYSTEM FOR APOLLO  
LUNAR FLIGHT  
LUNAR LANDING  
LUNAR LAUNCH  
LUNAR MODULE  
#MANNED SPACECRAFT  
MOON-EARTH TRAJECTORIES  
APOLLO 15 FLIGHT  
3004 3104  
BT APOLLO FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT APOLLO SPACECRAFT  
EARTH-MOON TRAJECTORIES  
LUNAR EXPLORATION  
LUNAR EXPLORATION SYSTEM FOR APOLLO  
LUNAR FLIGHT  
LUNAR LANDING  
LUNAR LAUNCH  
LUNAR MODULE  
#MANNED SPACECRAFT  
MOON-EARTH TRAJECTORIES  
APOLLO 16 FLIGHT  
3004 3104  
BT APOLLO FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT APOLLO SPACECRAFT  
EARTH-MOON TRAJECTORIES  
LUNAR EXPLORATION  
LUNAR EXPLORATION SYSTEM FOR APOLLO  
LUNAR FLIGHT  
LUNAR LANDING  
LUNAR LAUNCH  
LUNAR MODULE  
#MANNED SPACECRAFT  
MOON-EARTH TRAJECTORIES  
APOLLO FLIGHTS  
3004 3104  
NT APOLLO 5 FLIGHT  
APOLLO 6 FLIGHT  
APOLLO 7 FLIGHT  
APOLLO 8 FLIGHT  
APOLLO 9 FLIGHT  
APOLLO 10 FLIGHT  
APOLLO 11 FLIGHT  
APOLLO 12 FLIGHT  
APOLLO 13 FLIGHT  
APOLLO 14 FLIGHT  
APOLLO 15 FLIGHT  
APOLLO 16 FLIGHT  
BT MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT SKYLAB PROGRAM  
APOLLO LUNAR EXPERIMENT MODULE  
3004 3404  
BT APOLLO SPACECRAFT  
LUNAR LANDING  
LUNAR MODULE  
#MODULES  
SPACECRAFT MODULE  
RT APOLLO PROJECT  
LUNAR EXPLORATION  
APOLLO LUNAR SURFACE EXPERIMENTS PACKAGE  
3004  
UF ALSEP  
BT INSTRUMENT PACKAGES  
PACKAGES  
RT INSTRUMENTS  
LUNAR EXPLORATION  
PAYLOADS  
APOLLO PROJECT  
3004 3104 3409

BT LUNAR PROGRAMS  
NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
SPACE PROGRAMS  
RT AAP 1 MISSION  
AAP 2 MISSION  
AAP 3 MISSION  
AAP 4 MISSION  
APOLLO APPLICATIONS PROGRAM  
APOLLO EXTENSION SYSTEM  
APOLLO LUNAR EXPERIMENT MODULE  
APOLLO SPACECRAFT  
LSSM  
LUNAR EXPLORATION  
LUNAR EXPLORATION SYSTEM FOR APOLLO  
LUNAR MOBILE LABORATORIES  
LUNAR PROBES  
#MANNED SPACECRAFT  
MARQUARDT RND ENGINE  
MERCURY PROJECT  
SATURN LAUNCH VEHICLES  
SATURN 1 WORKSHOP  
SATURN 5 WORKSHOP  
SATURN WORKSHOPS  
SITE DATA PROCESSORS  
SKYLAB PROGRAM  
#SOFT LANDING SPACECRAFT  
APOLLO SHORT STACK  
3009 3110  
RT APOLLO SPACECRAFT  
SPACECRAFT CONFIGURATIONS  
APOLLO SPACECRAFT  
3004 3104 3110  
NT APOLLO LUNAR EXPERIMENT MODULE  
BT #LUNAR SPACECRAFT  
#MANEUVERABLE SPACECRAFT  
#MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
RT APOLLO APPLICATIONS PROGRAM  
APOLLO 5 FLIGHT  
APOLLO 6 FLIGHT  
APOLLO 7 FLIGHT  
APOLLO 8 FLIGHT  
APOLLO 9 FLIGHT  
APOLLO 10 FLIGHT  
APOLLO 11 FLIGHT  
APOLLO 12 FLIGHT  
APOLLO 13 FLIGHT  
APOLLO 14 FLIGHT  
APOLLO 15 FLIGHT  
APOLLO 16 FLIGHT  
APOLLO PROJECT  
APOLLO SHORT STACK  
APOLLO TELESCOPE MOUNT  
COMMAND MODULES  
LANDING MODULES  
LUNAR MODULE  
LUNAR MODULE 5  
LUNAR MODULE 7  
MANNED ORBITAL LABORATORIES  
MANNED ORBITAL RESEARCH  
LABORATORIES  
SATURN PROJECT  
SERVICE MODULES  
SKYLAB PROGRAM  
UNIFIED S BAND  
APOLLO TELESCOPE MOUNT  
3001 3110  
BT ASTRONOMICAL TELESCOPES  
MANNED ORBITAL TELESCOPES  
SPACECRAFT CONFIGURATIONS  
#TELESCOPES  
RT APOLLO APPLICATIONS PROGRAM  
APOLLO SPACECRAFT  
SKYLAB PROGRAM  
APPARATUS  
USE EQUIPMENT  
APPEARANCE  
3408  
RT QUALITY  
#APPENDAGES  
0402 0404 0409  
NT ARM (ANATOMY)  
ELBOW (ANATOMY)  
FOREARM  
HAND (ANATOMY)  
KNEE (ANATOMY)  
LEG (ANATOMY)  
RT #ANATOMY

## APPROACH CONTROL

HUMAN BODY  
LIMBS (ANATOMY)  
APPENDIX (ANATOMY)  
0402 0404  
BT #DIGESTIVE SYSTEM  
GASTROINTESTINAL SYSTEM  
#VISCERA  
RT INTESTINES  
APPLICATION  
USE UTILIZATION  
APPLICATIONS OF MATHEMATICS  
1902 1903 1904  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF MATHEMATICAL ANALYSIS  
RT #ANALYSIS (MATHEMATICS)  
APPROXIMATION  
COMBINATORIAL ANALYSIS  
#COMPUTATION  
DIMENSIONAL ANALYSIS  
DYNAMIC PROGRAMMING  
ERROR ANALYSIS  
FINITE ELEMENT METHOD  
#FUNCTIONS (MATHEMATICS)  
INFORMATION THEORY  
KALMAN-SCHMIDT FILTERING  
LINEAR PROGRAMMING  
MATHEMATICAL MODELS  
NONLINEAR PROGRAMMING  
NUMERICAL ANALYSIS  
OPERATIONAL CALCULUS  
OPERATIONS RESEARCH  
#OPTIMIZATION  
PARAMETERIZATION  
PROBABILITY THEORY  
#STATISTICAL ANALYSIS  
#STOCHASTIC PROCESSES  
TIME SERIES ANALYSIS  
APPLICATIONS PROGRAMS (COMPUTERS)  
0802  
RT #COMPUTER PROGRAMS  
APPLICATIONS TECHNOLOGY SATELLITES  
3107 3110 3404  
UF ATS (SATELLITES)  
NT ATS 1  
ATS 2  
ATS 3  
ATS 4  
ATS 5  
ATS 6  
ATS 7  
ATS 8  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
RT SCIENTIFIC SATELLITES  
COMMUNICATION SATELLITES  
EARLY BIRD SATELLITES  
METEOROLOGICAL SATELLITES  
NAVIGATION SATELLITES  
NAVSTAR SATELLITES  
APPROACH  
0201 2102  
NT INSTRUMENT APPROACH  
RT AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
APPROACH CONTROL  
ARRIVALS  
DESCENT  
FLIGHT PATHS  
FLIGHT PLANS  
#GROUND BASED CONTROL  
#GUIDANCE (MOTION)  
#LANDING  
#LANDING AIDS  
PASSAGEWAYS  
TOUCHDOWN  
APPROACH CONTROL  
2101 2102  
NT RADAR APPROACH CONTROL  
RT AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
AIRCRAFT COMMUNICATION  
AIRCRAFT GUIDANCE  
APPROACH  
APPROACH INDICATORS  
COLLISION AVOIDANCE  
FLIGHT PATHS  
GLIDE PATHS  
#GROUND BASED CONTROL

# APPROACH INDICATORS

INSTRUMENT APPROACH  
INSTRUMENT FLIGHT RULES  
INSTRUMENT LANDING SYSTEMS  
#LANDING AIDS  
LANDING RADAR  
RUNWAY LIGHTS  
#TRACKING (POSITION)  
#TRAFFIC CONTROL  
VISUAL CONTROL  
APPROACH INDICATORS  
0202 1402 1406 2104  
UF AIRCRAFT APPROACH INSTRUMENTS  
BT #AIRCRAFT INSTRUMENTS  
#DISPLAY DEVICES  
#FLIGHT INSTRUMENTS  
INDICATING INSTRUMENTS  
#LANDING AIDS  
LANDING INSTRUMENTS  
#MEASURING INSTRUMENTS  
RT AIR TRAFFIC CONTROL  
ALTIMETERS  
APPROACH CONTROL  
BLIND LANDING  
GLIDE PATHS  
INSTRUMENT APPROACH  
INSTRUMENT LANDING SYSTEMS  
#NAVIGATION AIDS  
RADAR APPROACH CONTROL  
SOLAR COMPASSES  
SPEED INDICATORS  
APPROPRIATIONS  
3402 3406 3409  
BT BUDGETING  
COST ESTIMATES  
FEDERAL BUDGETS  
GRANTS  
APPROXIMATION  
1902 3407  
UF APPROXIMATION METHODS  
NOMINAL VALUES  
TRUNCATION (MATHEMATICS)  
BT BORN APPROXIMATION  
BORN-OPPENHEIMER APPROXIMATION  
CHEBYSHEV APPROXIMATION  
EDDINGTON APPROXIMATION  
FINITE DIFFERENCE THEORY  
FINITE ELEMENT METHOD  
HARTREE APPROXIMATION  
LEAST SQUARES METHOD  
MILNE METHOD  
NEWTON-RAPHSON METHOD  
OSEEN APPROXIMATION  
PADE APPROXIMATION  
PARTICLE IN CELL TECHNIQUE  
POHLHAUSEN METHOD  
RAYLEIGH-RITZ METHOD  
RELAXATION METHOD (MATHEMATICS)  
RITZ AVERAGING METHOD  
SCHWARTZ METHOD  
SOMMERFELD APPROXIMATION  
BT NUMERICAL ANALYSIS  
BT APPLICATIONS OF MATHEMATICS  
CENSORED DATA (MATHEMATICS)  
DIFFERENCE EQUATIONS  
EQUATIONS  
FORM FACTORS  
GLAUBER THEORY  
METHODOLOGY  
MINIMAX TECHNIQUE  
PROBLEM SOLVING  
RELATIONSHIPS  
SPLINE FUNCTIONS  
#STATISTICAL ANALYSIS  
APPROXIMATION METHODS  
USE APPROXIMATION  
APSIDAL ANGLES  
USE ANGLES (GEOMETRY)  
APSIDES  
APSIDES  
1901 1904 3006  
UF APSIDAL ANGLES  
BT APHELIONS  
APOGEES  
PERIGEE  
PERIHELIONS  
PERILUNES  
BT ANGLES (GEOMETRY)  
ANTIPODES  
ELLIPTICAL ORBITS  
ORBITAL MECHANICS  
APT (PICTURE TRANSMISSION)  
USE AUTOMATIC PICTURE TRANSMISSION

APTITUDE  
0408 0410  
RT #LEARNING  
PERSONNEL SELECTION  
AQUARIUM METEOROLIDS  
3001 3005  
BT #CELESTIAL BODIES  
METEOROID SHOWERS  
METEOROLIDS  
RT ORIONID METEOROLIDS  
AQUEOUS SOLUTIONS  
0602  
BT #MIXTURES  
SOLUTIONS  
ARAGONITE  
1805 1806  
BT CALCIUM CARBONATES  
#CALCIUM COMPOUNDS  
#CARBON COMPOUNDS  
CARBONATES  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
RT CALCITE  
ARC CHAMBERS  
2501 3301  
BT CHAMBERS  
ELECTRIC ARCS  
#PLASMA GENERATORS  
THRUST CHAMBERS  
ARC DISCHARGES  
0604 1411 2304  
BT #ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
RT ELECTRIC ARCS  
ARC GENERATORS  
0302 0604 2501  
RT ELECTRIC ARCS  
#ELECTRIC GENERATORS  
ELECTROSTATIC GENERATORS  
GENERATORS  
INDUCTION  
INDUCTORS  
#PLASMA GENERATORS  
SPARK GAPS  
SPARK PLUGS  
VOLTAGE GENERATORS  
ARC HEATING  
0604 1504 1704 2502 3304 3404  
UF GERDIEN ARC HEATERS  
BT #HEATING  
RT GAS HEATING  
IMAGE FURNACES  
PLASMA HEATING  
RESISTANCE HEATING  
SAHA EQUATIONS  
ARC JET ENGINES  
2501  
BT IT-761 ENGINE  
RT ELECTROSTATIC ENGINES  
ION ENGINES  
PLASMA ENGINES  
RESISTOJET ENGINES  
ARC LAMPS  
0604 0605 0904  
BT #LIGHTING EQUIPMENT  
LUMINAIRES  
RT CARBON ARCS  
LIGHT SOURCES  
MERCURY ARCS  
SEARCHLIGHTS  
XENON LAMPS  
ARC MELTING  
0604 1504 1704 3303 3404  
BT MELTING  
#PHASE TRANSFORMATIONS  
RT ELECTROSLAG REFINING  
VACUUM MELTING  
ZONE MELTING  
ARC SPRAYING  
1507  
UF PLASMA ARC SPRAYING  
BT SPRAYING  
RT METAL SPRAYING  
ARC WELDING  
1504 1507 1704 2502  
BT GAS TUNGSTEN ARC WELDING  
PLASMA ARC WELDING  
BT ELECTRIC WELDING  
FUSION WELDING  
#WELDING  
RT ELECTRON BEAM WELDING

## NASA THESAURUS (ALPHABETICAL LISTING)

PRESSURE WELDING  
SPOT WELDS  
SPUTTERING  
ARCAS ROCKET VEHICLES  
2003 3106 3108  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT RADIOSONDES  
SOLID PROPELLANT ROCKET ENGINES  
ARCHER SOUNDING ROCKET  
3106 3108 3409  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
ARCHES  
3202  
RT PERFORATED SHELLS  
RIGID STRUCTURES  
#SHELLS (STRUCTURAL FORMS)  
TRUSSES  
ARCHITECTURE  
3203 3404  
RT ACOUSTICS  
BUILDINGS  
CONSTRUCTION  
CONSTRUCTION MATERIALS  
HUMAN FACTORS ENGINEERING  
ILLUMINATING  
STRUCTURAL DESIGN  
STRUCTURES  
ARCON ROCKET VEHICLE  
3106 3108 3409  
BT #ROCKET VEHICLES  
ARCS  
1002 1507 1902 2304 2502  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW  
RT AURORAL ARCS  
CURVES (GEOMETRY)  
ELECTRIC ARCS  
MAGNETIC ANNULAR ARC  
PLASMA JETS  
RED ARCS  
ARCTIC OCEAN  
1305  
BT OCEANS  
RT ARCTIC REGIONS  
GREENLAND  
ARCTIC REGIONS  
1305  
BT NORTHERN HEMISPHERE  
POLAR REGIONS  
#REGIONS  
RT ARCTIC OCEAN  
CHUCKCHI SEA  
CLIMATOLOGY  
GEOGRAPHY  
POLAR CAPS  
SIBERIA  
SUBARCTIC REGIONS  
AREA  
0101 1308 1902 2311 3406  
UF PLANIMETRY  
PROJECTED AREAS  
RT CROSS SECTIONS  
#GEOMETRY  
INTEGRAL CALCULUS  
SECTORS  
SURFACES  
VOLUME  
ABECOLINE HYDROBROMIDE  
0403 1808  
BT ALKALOIDS  
BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
ABEND-ROLAND COMET  
3001  
BT #CELESTIAL BODIES  
COMETS  
ARGENTINA  
1305  
RT NATIONS  
SOUTH AMERICA  
ARGO D-4 ROCKET VEHICLE  
3106 3108 3409

# NASA THESAURUS (ALPHABETICAL LISTING)

BT ARGO ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
RT HONEST JOHN ROCKET VEHICLE  
JAVELIN ROCKET VEHICLE  
NIKE-AJAX MISSILE  
SOLID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS  
ARGO D-8 ROCKET VEHICLE  
3106 3108 3409  
BT ARGO ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
RT JOURNEYMAN ROCKET VEHICLE  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
ARGO E-5 ROCKET VEHICLE  
3106 3108 3409  
BT ARGO ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
RT HONEST JOHN ROCKET VEHICLE  
JASON ROCKET VEHICLE  
NIKE-AJAX MISSILE  
SOLID PROPELLANT ROCKET ENGINES  
ARGO ROCKET VEHICLES  
3106 3108  
NT ARGO D-4 ROCKET VEHICLE  
ARGO D-8 ROCKET VEHICLE  
ARGO E-5 ROCKET VEHICLE  
BT MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
ARGON  
0603 1807  
NT ARGON ISOTOPES  
BT \*CHEMICAL ELEMENTS  
\*GASES  
BARE GASES  
ARGON ISOTOPES  
0603 1807 2406  
UP ARGON 36  
ARGON 40  
BT ARGON  
\*CHEMICAL ELEMENTS  
\*GASES  
ISOTOPES  
NUCLIDES  
RARE GASES  
ARGON LASERS  
1203 1601 2311 3304  
BT LASERS  
\*STIMULATED EMISSION DEVICES  
RT CHEMICAL LASERS  
GAS MASERS  
INFRARED LASERS  
MACH-ZEHNDER INTERFEROMETERS  
MOLECULAR OSCILLATIONS  
PULSED LASERS  
Q SWITCHED LASERS  
STIMULATED EMISSION  
ARGON PLASMA  
2502  
BT \*PLASMAS (PHYSICS)  
RT HELIUM PLASMA  
HYDROGEN PLASMA  
\*PARTICLES  
ARGON 36  
USE ARGON ISOTOPES  
ARGON 40  
USE ARGON ISOTOPES  
ARGOSY MK-1 AIRCRAFT  
0207 3401  
BT HAWKER SIDDELEY AIRCRAFT  
\*JET AIRCRAFT  
MONOPLANES  
\*TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
ARGUMENTS (MATHEMATICS)  
USE INDEPENDENT VARIABLES  
ARGUS PROJECT  
2205 3302  
BT \*PROGRAMS  
PROJECTS  
RT THERMONUCLEAR EXPLOSIONS  
ARIEL 1 SATELLITE  
3107 3110 3409  
UP S-51 SATELLITE  
BT ARIEL SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
\*SATELLITES

ARIEL 2 SATELLITE  
3107 3110 3409  
UP S-52 SATELLITE  
BT ARIEL SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
\*SATELLITES  
ARIEL 3 SATELLITE  
3107 3110 3409  
BT ARIEL SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
\*SATELLITES  
ARIEL SATELLITES  
3107 3110 3409  
NT ARIEL 1 SATELLITE  
ARIEL 2 SATELLITE  
ARIEL 3 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
\*SATELLITES  
RT GEOPHYSICAL SATELLITES  
THOR DELTA LAUNCH VEHICLE  
ARIES CONSTELLATION  
3001  
BT CONSTELLATIONS  
ARIEID METEORIODS  
3001 3005  
BT \*CELESTIAL BODIES  
METEORIOD SHOWERS  
METEORIODS  
ARIP (IMPACT PREDICTION)  
USE COMPUTERIZED SIMULATION  
IMPACT PREDICTION  
ARIS INSTRUMENTATION SHIP  
USE ADVANCED RANGE INSTRUMENTATION SHIP  
ARITHMETIC  
1902 1903  
NT DOUBLE PRECISION ARITHMETIC  
FLOATING POINT ARITHMETIC  
BT \*NUMBER THEORY  
RT ADDITION  
CALCULATORS  
\*COMPUTATION  
DIVIDING (MATHEMATICS)  
EXPONENTS  
INTEGERS  
MULTIPLICATION  
SUBTRACTION  
SUMS  
ARITHMETIC AND LOGIC UNITS  
0801 0802  
UP ALU (COMPUTER COMPONENTS)  
RT \*COMPUTER COMPONENTS  
COMPUTERS  
DOUBLE PRECISION ARITHMETIC  
ARIZONA  
1305  
BT UNITED STATES OF AMERICA  
ARKANSAS  
1305  
BT UNITED STATES OF AMERICA  
ARM (ANATOMY)  
0404 0506 0508  
NT ELBOW (ANATOMY)  
FOREARM  
BT \*ANATOMY  
\*APPENDAGES  
LIMBS (ANATOMY)  
RT HUMERUS  
SCAPULA  
ULNA  
WRIST  
ARMATURES  
1504  
RT COMMUTATORS  
\*ELECTRIC GENERATORS  
ELECTRIC MOTORS  
ELECTRIC RELAYS  
ROTATING ELECTRICAL MACHINES  
ROTORS  
ARMED FORCES  
3401  
NT ARMED FORCES (FOREIGN)  
ARMED FORCES (UNITED STATES)  
NAVY  
RT GUERRILLAS  
MILITARY AIRCRAFT  
MILITARY AVIATION  
ARMED FORCES (FOREIGN)  
3401  
BT ARMED FORCES

## ARROW WINGS

ARMED FORCES (UNITED STATES)  
3401  
BT ARMED FORCES  
ARMOR  
0508 1701 1805 3401  
RT HELMETS  
METAL PLATES  
ORDNANCE  
PROTECTIVE CLOTHING  
\*SHIELDING  
ARMY-NAVY INSTRUMENTATION PROGRAM  
1402 1410 3401  
BT \*PROGRAMS  
RT LOGISTICS  
MILITARY TECHNOLOGY  
AROD (RANGE-ORBIT DETERMINATION)  
USE AIRBORNE RANGE AND ORBIT  
DETERMINATION  
AROMATIC COMPOUNDS  
0403 0603 1808  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP ARYL COMPOUNDS  
RT CHLOROAROMATICS  
PURPURYL ALCOHOL  
\*HYDROCARBONS  
\*ORGANIC COMPOUNDS  
AROOS METEORITE  
3001 3005  
BT \*CELESTIAL BODIES  
IRON METEORITES  
METEORITES  
AROUSAL  
0408  
RT ALERTNESS  
ELECTROENCEPHALOGRAPHY  
STIMULI  
\*ARRAYS  
0701 0901 1902 2311  
NT ANTENNA ARRAYS  
ENDFIRE ARRAYS  
INERTIALLESS STEERABLE ANTENNAS  
LARGE APERTURE SEISMIC ARRAY  
LINEAR ARRAYS  
PHASED ARRAYS  
STEERABLE ANTENNAS  
SYNTHETIC ARRAYS  
TURNSTILE ANTENNAS  
YAGI ANTENNAS  
RT ANTENNAS  
MATRICES (MATHEMATICS)  
RANKING  
STATISTICS  
ARRESTERS  
0508 0904  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ARRESTING GEAR  
BLOCKING  
GAPS  
LIGHTNING  
ARRESTING GEAR  
0203  
BT \*LANDING AIDS  
SAFETY DEVICES  
RT ABORT APPARATUS  
AIRCRAFT CARRIERS  
AIRCRAFT SAFETY  
ANTISKID DEVICES  
ARRESTERS  
BARRIERS  
CRASH LANDING  
GEAR  
ARRHYTHMIA  
0405 0408  
BT HEART RATE  
\*RATES (PER TIME)  
ARRIVALS  
0702 1101 1204 3009 3102 3404  
RT APPROACH  
\*LANDING  
ARROW WINGS  
0104  
BT \*AIRPOILS  
\*PLANFORMS  
SWEEP WINGS  
SWEEPBACK WINGS  
WING PLANFORMS  
WINGS  
RT CARET WINGS



## ARSENATES

DELTA WINGS  
VARIABLE SWEEP WINGS  
ARSENATES  
0603 1804  
BT #ARSENIC COMPOUNDS  
RT ARSENIDES  
OXYGEN COMPOUNDS  
ARSENIC  
0603 1703  
NT ARSENIC ISOTOPES  
BT #CHEMICAL ELEMENTS  
METALLOIDS  
ARSENIC ALLOYS  
0603 1701  
BT #ALLOYS  
#ARSENIC COMPOUNDS  
0603 1804 1808  
NT ARSENATES  
ARSENIDES  
GALLIUM ARSENIDES  
INDIUM ARSENIDES  
PROUSTITE  
RT GROUPE 5A COMPOUNDS  
ARSENIC ISOTOPES  
0603 1703 2406  
BT ARSENIC  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
ARSENIDES  
1703 1804  
NT GALLIUM ARSENIDES  
INDIUM ARSENIDES  
PROUSTITE  
BT #ARSENIC COMPOUNDS  
RT ARSENATES  
INTERMETALLICS  
ARTEMIA  
0402  
BT #ANIMALS  
ARTHROPODS  
INVERTEBRATES  
ARTERIES  
0404  
NT AORTA  
BT #ANATOMY  
BLOOD VESSELS  
CARDIOVASCULAR SYSTEM  
CIRCULATORY SYSTEM  
VASCULAR SYSTEM  
RT ARTERIOSCLEROSIS  
CAROTID SINUS REFLEX  
PHONOARTERIOGRAPHY  
SPHYGMOGRAPHY  
VEINS  
ARTERIOSCLEROSIS  
0405  
BT #DISEASES  
RT ARTERIES  
CIRCULATORY SYSTEM  
ARTHRITIS  
0404 0405 0408  
BT #DISEASES  
RT BONES  
CALCIFICATION  
JOINTS (ANATOMY)  
ARTHROPODS  
0402  
NT ARTEMIA  
BEES  
BEETLES  
CEPHALPODS  
CHIRONOMUS FLIES  
COCKROACHES  
COLEOPTERA  
CRABS  
CRICKETS  
DROSOPHILA  
GRASSHOPPERS  
INSECTS  
MOLLUSKS  
MOTHS  
OCTOPUSES  
SILKWORKS  
SNAILS  
SPIDERS  
TRIBOLIA  
BT #ANIMALS  
INVERTEBRATES  
ARTICULATION  
0702

BT #SPEECH  
RT #LANGUAGES  
SPEECH DEFECTS  
ARTIFACTS  
0404 3403  
RT ANTHROPOLOGY  
CULTURE (SOCIAL SCIENCES)  
MUSEUMS  
ARTIFICIAL CLOUDS  
2003  
BT #CLOUDS  
CLOUDS (METEOROLOGY)  
RT WEATHER MODIFICATION  
ARTIFICIAL EARS  
0405 0408 0506  
BT #MEDICAL EQUIPMENT  
PROSTHETIC DEVICES  
RT EAR  
ARTIFICIAL GRAVITY  
0401 0504 1309 3104  
BT GRAVITATION  
RT ACCELERATION STRESSES (PHYSIOLOGY)  
ASTRONAUTICS  
ENVIRONMENTAL CONTROL  
GRAVITY GRADIENT SATELLITES  
HUMAN CENTRIPUGES  
LIFE SUPPORT SYSTEMS  
ROTATING ENVIRONMENTS  
SPIN DYNAMICS  
WEIGHTLESSNESS  
ARTIFICIAL HEART VALVES  
0501 0503 0507 1501 1504  
BT #MEDICAL EQUIPMENT  
#VALVES  
RT BIOTECHNOLOGY  
BLOOD CIRCULATION  
HEART  
ARTIFICIAL INTELLIGENCE  
0410 0804 1902  
UF MACHINE RECOGNITION  
BT INTELLIGENCE  
RT AUTOMATA THEORY  
BIONICS  
CHARACTER RECOGNITION  
COGNITION  
COMPUTERS  
DEPERSONALIZATION  
INTELLECT  
LEARNING MACHINES  
LOGIC  
#PERCEPTION  
ROBOTS  
SELF ORGANIZING SYSTEMS  
THEOREM PROVING  
VOICE DATA PROCESSING  
ARTIFICIAL RADIATION BELTS  
0411 0601 0704 1302 1307 2403 2903  
BT CHARGED PARTICLES  
#EARTH ATMOSPHERE  
MAGNETICALLY TRAPPED PARTICLES  
#PARTICLES  
RADIATION BELTS  
TRAPPED PARTICLES  
RT INNER RADIATION BELT  
NUCLEAR EXPLOSIONS  
OUTER RADIATION BELT  
ARTIFICIAL RESPIRATION  
USE RESUSCITATION  
ARTIFICIAL SATELLITES  
3107 3110  
UF ORBITING SATELLITES  
NT ACTIVE SATELLITES  
AEROS SATELLITE  
ALOUETTE B SATELLITE  
ALOUETTE 1 SATELLITE  
ALOUETTE 2 SATELLITE  
ALOUETTE SATELLITES  
ANNA SATELLITES  
AOSO  
APPLICATIONS TECHNOLOGY SATELLITES  
ARIEL 1 SATELLITE  
ARIEL 2 SATELLITE  
ARIEL 3 SATELLITE  
ARIEL SATELLITES  
ATS 1  
ATS 2  
ATS 3  
ATS 4  
ATS 5  
ATS 6  
ATS 7  
ATS 8

## NASA THESAURUS (ALPHABETICAL LISTING)

BEACON EXPLORER A  
BEACON SATELLITES  
BIOSATELLITE 1  
BIOSATELLITE 2  
BIOSATELLITE 3  
BIOSATELLITES  
COMMUNICATION SATELLITES  
COSMOS 1 SATELLITE  
COSMOS 2 SATELLITE  
COSMOS 3 SATELLITE  
COSMOS 4 SATELLITE  
COSMOS 5 SATELLITE  
COSMOS 6 SATELLITE  
COSMOS 7 SATELLITE  
COSMOS 8 SATELLITE  
COSMOS 11 SATELLITE  
COSMOS 12 SATELLITE  
COSMOS 14 SATELLITE  
COSMOS 15 SATELLITE  
COSMOS 17 SATELLITE  
COSMOS 41 SATELLITE  
COSMOS 44 SATELLITE  
COSMOS 53 SATELLITE  
COSMOS 54 SATELLITE  
COSMOS 55 SATELLITE  
COSMOS 71 SATELLITE  
COSMOS 110 SATELLITE  
COSMOS 137 SATELLITE  
COSMOS 144 SATELLITE  
COSMOS 149 SATELLITE  
COSMOS 166 SATELLITE  
COSMOS 186 SATELLITE  
COSMOS 188 SATELLITE  
COSMOS 206 SATELLITE  
COSMOS 213 SATELLITE  
COSMOS 224 SATELLITE  
COSMOS 225 SATELLITE  
COSMOS SATELLITES  
COURIER SATELLITE  
D-1 SATELLITE  
DIADENE SATELLITE  
DIRECT READOUT EQUATORIAL WEATHER  
SAT  
DISCOVERER 5 SATELLITE  
DISCOVERER 6 SATELLITE  
DISCOVERER 15 SATELLITE  
DISCOVERER 17 SATELLITE  
DISCOVERER 18 SATELLITE  
DISCOVERER 29 SATELLITE  
DISCOVERER 30 SATELLITE  
DISCOVERER 31 SATELLITE  
DISCOVERER 32 SATELLITE  
DISCOVERER 36 SATELLITE  
DISCOVERER 38 SATELLITE  
DISCOVERER SATELLITES  
DODGE SATELLITE  
EARLY BIRD SATELLITES  
EARTH RESOURCES TECHNOLOGY  
SATELLITES  
ECHO 1 SATELLITE  
ECHO 2 SATELLITE  
ECHO SATELLITES  
EGO  
ELEKTRON 1 SATELLITE  
ELEKTRON 2 SATELLITE  
ELEKTRON 4 SATELLITE  
ELEKTRON SATELLITES  
ENVIRONMENTAL RESEARCH SATELLITES  
EOSS  
ERS 17  
ERS 18  
ESRO 1 SATELLITE  
ESRO 2 SATELLITE  
ESRO SATELLITES  
ESSA 1 SATELLITE  
ESSA 2 SATELLITE  
ESSA 3 SATELLITE  
ESSA 4 SATELLITE  
ESSA 5 SATELLITE  
ESSA 6 SATELLITE  
ESSA 7 SATELLITE  
ESSA 8 SATELLITE  
ESSA 9 SATELLITE  
ESSA SATELLITES  
EUROPEAN SPACE RESEARCH  
ORGANIZATION SAT  
EUROPEAN 1 SPACECRAFT  
EVASIVE SATELLITES  
EXPLORER S-46 SATELLITE  
EXPLORER S-55 SATELLITE  
EXPLORER S-46  
EXPLORER S-55

# NASA THESAURUS (ALPHABETICAL LISTING)

EXPLORER 1 SATELLITE  
 EXPLORER 2 SATELLITE  
 EXPLORER 3 SATELLITE  
 EXPLORER 4 SATELLITE  
 EXPLORER 5 SATELLITE  
 EXPLORER 6 SATELLITE  
 EXPLORER 7 SATELLITE  
 EXPLORER 8 SATELLITE  
 EXPLORER 9 SATELLITE  
 EXPLORER 10 SATELLITE  
 EXPLORER 11 SATELLITE  
 EXPLORER 12 SATELLITE  
 EXPLORER 13 SATELLITE  
 EXPLORER 14 SATELLITE  
 EXPLORER 15 SATELLITE  
 EXPLORER 16 SATELLITE  
 EXPLORER 17 SATELLITE  
 EXPLORER 18 SATELLITE  
 EXPLORER 19 SATELLITE  
 EXPLORER 20 SATELLITE  
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 EXPLORER 22 SATELLITE  
 EXPLORER 23 SATELLITE  
 EXPLORER 24 SATELLITE  
 EXPLORER 25 SATELLITE  
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 EXPLORER 27 SATELLITE  
 EXPLORER 28 SATELLITE  
 EXPLORER 29 SATELLITE  
 EXPLORER 30 SATELLITE  
 EXPLORER 31 SATELLITE  
 EXPLORER 32 SATELLITE  
 EXPLORER 33 SATELLITE  
 EXPLORER 34 SATELLITE  
 EXPLORER 35 SATELLITE  
 EXPLORER 36 SATELLITE  
 EXPLORER 37 SATELLITE  
 EXPLORER 38 SATELLITE  
 EXPLORER 39 SATELLITE  
 EXPLORER 40 SATELLITE  
 EXPLORER 41 SATELLITE  
 EXPLORER 42 SATELLITE  
 EXPLORER 43 SATELLITE  
 EXPLORER SATELLITES  
 FRENCH SATELLITE  
 GEODETIC SATELLITES  
 GEOPHYSICAL SATELLITES  
 GEOS-C SATELLITE  
 GEOS 1 SATELLITE  
 GEOS 2 SATELLITE  
 GRAVITY GRADIENT SATELLITES  
 GREB 5 SATELLITE  
 GREB SATELLITES  
 HEOS A SATELLITE  
 HEOS B SATELLITE  
 HEOS SATELLITES  
 IMP  
 INJUN 1 SATELLITE  
 INJUN 2 SATELLITE  
 INJUN 3 SATELLITE  
 INJUN 4 SATELLITE  
 INJUN SATELLITES  
 INSPECTOR SATELLITE  
 INTELSAT SATELLITES  
 ISIS-A  
 ISIS-B  
 ISIS-C  
 ISIS SATELLITES  
 ISIS-X  
 LARGOS SATELLITE  
 LINCOLN EXPERIMENTAL SATELLITES  
 LOW FREQUENCY TRANSIONOSPHERIC  
 SATELLITES  
 LUNAR ORBITER  
 LUNAR SATELLITES  
 METEOROLOGICAL SATELLITES  
 MICROMETEOROID EXPLORER SATELLITES  
 MIDAS 2 SATELLITE  
 MIDAS 3 SATELLITE  
 MIDAS 4 SATELLITE  
 MIDAS 5 SATELLITE  
 MIDAS 6 SATELLITE  
 MIDAS 7 SATELLITE  
 MIDAS SATELLITES  
 MOLNIYA SATELLITES  
 NAVIGATION SATELLITES  
 NAVSTAR SATELLITES  
 NIMBUS 1 SATELLITE  
 NIMBUS 2 SATELLITE  
 NIMBUS 3 SATELLITE  
 NIMBUS 4 SATELLITE  
 NIMBUS 5 SATELLITE

NIMBUS 6 SATELLITE  
 NIMBUS SATELLITES  
 OAO  
 OGO  
 OGO-A  
 OGO-B  
 OGO-C  
 OGO-D  
 OGO-E  
 OGO-F  
 ORBIS  
 ORBIS CAL SATELLITE  
 ORBITAL WORKSHOPS  
 OSO  
 OSO-B  
 OSO-C  
 OSO-D  
 OSO-E  
 OSO-F  
 OSO-G  
 OSO-H  
 OSO-1  
 OSO-2  
 OSO-3  
 OSO-4  
 OSO-4  
 OUTER PLANETS EXPLORERS  
 PAGEOS SATELLITE  
 PAS  
 PASSIVE SATELLITES  
 PEGASUS SATELLITES  
 POGO  
 POLYOT SATELLITES  
 PROTON 1 SATELLITE  
 PROTON 2 SATELLITE  
 PROTON 3 SATELLITE  
 PROTON 4 SATELLITE  
 PROTON SATELLITES  
 RADIO ASTRONOMY EXPLORER SATELLITE  
 RELAY 1 SATELLITE  
 RELAY 2 SATELLITE  
 RELAY SATELLITES  
 SAN MARCO SATELLITE  
 SAN MARCO 1 SATELLITE  
 SAN MARCO 2 SATELLITE  
 SAS-A  
 SAS-B  
 SAS-C  
 SAS-D  
 SCORE SATELLITE  
 SIRS B SATELLITE  
 SKYNET SATELLITES  
 SNAPSHOT SATELLITE  
 SOLAR RADIATION 1 SATELLITE  
 SOLAR RADIATION 3 SATELLITE  
 SPUTNIK 1 SATELLITE  
 SPUTNIK 2 SATELLITE  
 SPUTNIK 3 SATELLITE  
 SPUTNIK 4 SATELLITE  
 SPUTNIK 5 SATELLITE  
 SPUTNIK 6 SATELLITE  
 SPUTNIK 7 SATELLITE  
 SPUTNIK 8 SATELLITE  
 SPUTNIK SATELLITES  
 SYNCHRONOUS METEOROLOGICAL  
 SATELLITE  
 SYNCHRONOUS SATELLITES  
 SYNCOM 1 SATELLITE  
 SYNCOM 2 SATELLITE  
 SYNCOM 3 SATELLITE  
 SYNCOM SATELLITES  
 TELSTAR 1 SATELLITE  
 TELSTAR 2 SATELLITE  
 TELSTAR SATELLITES  
 TIROS M  
 TIROS 1 SATELLITE  
 TIROS 2 SATELLITE  
 TIROS 3 SATELLITE  
 TIROS 4 SATELLITE  
 TIROS 5 SATELLITE  
 TIROS 6 SATELLITE  
 TIROS 7 SATELLITE  
 TIROS 8 SATELLITE  
 TIROS 9 SATELLITE  
 TIROS 10 SATELLITE  
 TIROS SATELLITES  
 TRANSIT 1A SATELLITE  
 TRANSIT 2A SATELLITE  
 TRANSIT 4A SATELLITE  
 TRANSIT 5A SATELLITE  
 TRANSIT ATTITUDE CONTROL SATELLITE  
 TRANSIT 1B SATELLITE

## ASCENT TRAJECTORIES

TRANSIT 3B SATELLITE  
 TRANSIT 4B SATELLITE  
 TRANSIT SATELLITES  
 VANGUARD 1 SATELLITE  
 VANGUARD 2 SATELLITE  
 VANGUARD 3 SATELLITE  
 VANGUARD SATELLITES  
 VELA SATELLITES  
 VENERA 5 SATELLITE  
 VENERA 6 SATELLITE  
 VENERA SATELLITES  
 BT #SATELLITES  
 RT EARTH SATELLITES  
 INFLATABLE SPACECRAFT  
 #INTERPLANETARY SPACECRAFT  
 LUNAR ORBITS  
 #LUNAR SPACECRAFT  
 #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 #MILITARY SPACECRAFT  
 NATURAL SATELLITES  
 #OBSERVATORIES  
 #ORBITS  
 RECONNAISSANCE SPACECRAFT  
 SATELLOIDS  
 #SPACE CAPSULES  
 SPACE LABORATORIES  
 SPACE STATIONS  
 TELSTAR PROJECT  
 #UNMANNED SPACECRAFT  
 ARTILLERY  
 3302 3401  
 NT HOWITZERS  
 BT GUNS (ORDNANCE)  
 #WEAPONS  
 RT ARTILLERY FIRE  
 GUN LAUNCHERS  
 #MISSILES  
 RIFLES  
 SABOT PROJECTILES  
 ARTILLERY FIRE  
 3401  
 RT ARTILLERY  
 BARRAGES  
 GUNFIRE  
 ARTS  
 0702  
 RT MUSIC  
 ARYL COMPOUNDS  
 USE AROMATIC COMPOUNDS  
 ASA  
 USE ACETILSALICYLIC ACID  
 ASBESTOS  
 1805 1806  
 BT #MINERALS  
 RT AMBERLITE (TRADEMARK)  
 ELECTRICAL INSULATION  
 INSULATION  
 NONFLAMMABLE MATERIALS  
 SERPENTINE  
 THERMAL INSULATION  
 ASCENT  
 0101 3006 3102 3103  
 NT CLIMBING FLIGHT  
 RT ASCENT TRAJECTORIES  
 BALLOONS  
 DESCENT  
 LUNAR MODULE ASCENT STAGE  
 TAKEOFF  
 ASCENT PROPULSION SYSTEMS  
 2702 2808 3106  
 BT #PROPULSION  
 RT LUNAR MODULE  
 #MISSILES  
 #PROPELLANTS  
 PROPULSION SYSTEM CONFIGURATIONS  
 ROCKET PROPELLANTS  
 #SPACE FLIGHT  
 ASCENT TRAJECTORIES  
 0101 1904 3006  
 BT #TRAJECTORIES  
 RT ASCENT  
 BALLISTIC TRAJECTORIES  
 CLIMBING FLIGHT  
 COASTING FLIGHT  
 DESCENT TRAJECTORIES  
 FLIGHT MECHANICS  
 #GUIDANCE (MOTION)  
 INJECTION GUIDANCE  
 LOFTING  
 LUNAR MODULE ASCENT STAGE  
 MIDCOURSE TRAJECTORIES

# ASCORBIC ACID

MISSILE TRAJECTORIES  
PARABOLIC FLIGHT  
POST BOOST PROPULSION SYSTEM  
RENDEZVOUS TRAJECTORIES  
SPACECRAFT TRAJECTORIES  
ASCORBIC ACID  
0403 0405 0408 1808  
UF VITAMIN C  
BT #ACIDS  
#HETEROCYCLIC COMPOUNDS  
VITAMINS  
ASCORBIC ACID METABOLISM  
0403 0404  
BT #METABOLISM  
ASCR REACTOR  
USE ADVANCED SODIUM COOLED REACTOR  
ASDE  
USE AIRPORT SURFACE DETECTION EQUIPMENT  
ASHES  
0505 0602 3301  
RT AIR POLLUTION  
COAL  
COMBUSTION PRODUCTS  
CULTIVATION  
FERTILIZERS  
RESIDUES

ASIA  
1305  
BT #CONTINENTS  
RT AFGHANISTAN  
BURMA  
CAMBODIA  
CEYLON  
CHINA  
CHINESE PEOPLES REPUBLIC  
HIMALAYAS  
INDIA  
IRAN  
ISRAEL  
LAOS  
LEBANON  
MALAYA  
MONGOLIA  
NATIONS  
NEPAL  
PAKISTAN  
SEA OF JAPAN  
SIBERIA  
SOUTHEAST ASIA  
SYRIA  
THAILAND  
U.S.S.R.  
VIETNAM  
YEMEN

ASP ROCKET VEHICLE  
3106 3108  
UF NIKE-ASP ROCKET  
BT #ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SONDES

ASPARTATES  
0403 1808  
BT #ESTERS  
#ORGANIC COMPOUNDS  
#PROTEINS  
RT AMINO ACIDS  
ASPARTIC ACID

ASPARTIC ACID  
0403 1808  
BT #ACIDS  
AMINO ACIDS  
CARBOXYLIC ACIDS  
#ORGANIC COMPOUNDS  
RT ASPARTATES  
PEPTIDES

ASPECT RATIO  
0101 0102 0104  
NT HIGH ASPECT RATIO  
LOW ASPECT RATIO  
BT #RATIOS  
RT #AERODYNAMIC CHARACTERISTICS  
#AIRFOILS  
FINENESS RATIO  
LIFT  
SPAN  
WINGS

ASPERGILLUS  
0405 0407 0409  
BT FUNGI  
#PLANTS (BOTANY)  
RT INFECTIOUS DISEASES  
MOLDS

ASPHALT  
1802 1805 1808  
RT AMORPHOUS MATERIALS  
PAVEMENTS  
PITCH (MATERIAL)  
TARS  
ASPHERICITY  
1407 2310 3408  
RT ABERRATION  
OPTICS  
#REFRACTION  
SPHERES  
ASPHYXIA  
0401 0405 0506 0507  
BT SIGNS AND SYMPTOMS  
RT ANOXIA  
RESPIRATION  
ASPIRATION  
USE VACUUM  
ASRO AIRCRAFT  
0201 0206  
NT SIEMETZKI T-3 HELICOPTER  
RT AIRCRAFT  
ASROC ENGINE  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT ANTISUBMARINE WARFARE  
TORPEDOES

ASSAULTING  
USE ATTACKING (ASSAULTING)

ASSAYING  
0601 1701 1704 1806  
RT CHEMICAL ANALYSIS  
PARTICULATE SAMPLING  
SAMPLING

ASSEMBLER ROUTINES  
0802  
BT COMPUTER PROGRAMMING  
#COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
RT COMPILERS  
OPERATING SYSTEMS (COMPUTERS)

ASSEMBLIES  
1507  
NT SUBASSEMBLIES  
RT ACCUMULATIONS  
ASSEMBLING  
ASSEMBLY  
COLLOCATION  
COMPONENTS  
FABRICATION  
MOSAICS  
STRINGS

ASSEMBLING  
1106  
NT ORBITAL ASSEMBLY  
ASSEMBLIES  
ASSEMBLY

ATTACHMENT  
CLEAN ROOMS  
COLLECTION  
CONSTRUCTION  
FABRICATION  
FITTING  
INSTALLING  
JOINING  
MOUNTING  
#PREPARATION  
RIGGING

ASSEMBLY  
3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ASSEMBLIES  
ASSEMBLING  
COLLOCATION  
ASSEMBLY LANGUAGE  
0802  
NT AUTOCODERS  
COMPASS (PROGRAMMING LANGUAGE)  
MAP (PROGRAMMING LANGUAGE)  
BT #LANGUAGES  
MACHINE ORIENTED LANGUAGES

RT COMPUTER PROGRAMMING  
#COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
ASSESSMENTS  
3402 3403 3404 3406 3407  
NT TECHNOLOGY ASSESSMENT

# NASA THESAURUS (ALPHABETICAL LISTING)

RT EVALUATION  
RATINGS  
REVENUE  
VALUE  
ASSET GLIDERS  
0101 0205 3110 3304  
BT #GLIDERS  
RT HYPERSONIC GLIDERS  
LIFTING REENTRY VEHICLES  
ASSET PROJECT  
3409  
BT #PROGRAMS  
PROJECTS  
RT AEROTHERMODYNAMICS  
#ENVIRONMENTAL TESTS  
ASSIGNMENT  
USE ALLOCATIONS  
ASSIMILATION  
0401 0403 0404 0408 0412 0501 0507  
RT DISPERSING  
DISTRIBUTING  
DISTRIBUTION  
MATERIAL ABSORPTION  
ASSOCIATIONS  
USE #ORGANIZATIONS  
ASSUMPTIONS  
1902 2311 3009 3407  
RT HYPOTHESES  
INFERENCE  
RISK  
SIMPLIFICATION  
THEORIES  
ASSURANCE  
3401 3404 3407  
RT QUALITY CONTROL  
REDUNDANCY  
RELIABILITY  
ASTATINE  
0603 1807  
BT #CHEMICAL ELEMENTS  
HALOGENS  
#METALS  
ASTATINE ISOTOPES  
1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
RT RADIOACTIVE DECAY  
ASTEC SOLAR TURBOELECTRIC GENERATOR  
0301 2201  
BT #AUXILIARY POWER SOURCES  
#ELECTRIC GENERATORS  
ROTATING GENERATORS  
SOLAR AUXILIARY POWER UNITS  
SOLAR GENERATORS  
TURBOGENERATORS  
#TURBOMACHINERY  
RT RANKINE CYCLE  
SUNFLOWER 1  
THERMOELECTRIC GENERATORS  
ASTEROIDS  
1901 3001 3008  
NT CERES ASTEROID  
ICARUS ASTEROID  
VESTA ASTEROID  
BT #CELESTIAL BODIES  
RT METEORIDS  
SOLAR SYSTEM  
SPACE DEBRIS  
ASTHENIOPIA  
0401 0408  
BT EYE DISEASES  
RT FATIGUE (BIOLOGY)  
ASTHMA  
0405 0408  
BT #DISEASES  
RESPIRATORY DISEASES  
ASTIGMATISM  
0408 0905 2310  
BT EYE DISEASES  
RT DISTORTION  
FOCUSING  
LENSES  
OPTICS  
#REFRACTION  
STIGMATISM  
ASTRONICS  
2103 3004 3007 3009 3104  
RT ASTRONAUTICS  
AVIONICS  
CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

ELECTRONICS  
 #GUIDANCE (NOTION)  
 SPACECRAFT COMMUNICATION  
 SPACECRAFT ELECTRONIC EQUIPMENT  
 #SPACECRAFT INSTRUMENTS  
 TEST EQUIPMENT  
 ASTRO VEHICLE  
 0706 2104 3107  
 BT #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SOFT LANDING SPACECRAFT  
 RT AEROSPACEPLANES  
 ASTROPLANE  
 BOOSTGLIDE VEHICLES  
 FERRY SPACECRAFT  
 LIFTING REENTRY VEHICLES  
 SPACECRAFT  
 ASTROBEE 200 ROCKET VEHICLE  
 3106 3108 3409  
 BT ASTROBEE ROCKET VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT GENIE ROCKET VEHICLE  
 SOLID PROPELLANT ROCKET ENGINES  
 ASTROBEE 1500 ROCKET VEHICLE  
 3106 3108 3110  
 BT ASTROBEE ROCKET VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT SOLID PROPELLANT ROCKET ENGINES  
 ASTROBEE ROCKET VEHICLES  
 3106 3108 3110  
 NT ASTROBEE 200 ROCKET VEHICLE  
 ASTROBEE 1500 ROCKET VEHICLE  
 BT MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT GENIE ROCKET VEHICLE  
 SOLID PROPELLANT ROCKET ENGINES  
 ASTROBIOLOGY  
 USE EXOBIOLOGY  
 ASTRODYNAMICS  
 1901 1904 3002 3006 3404  
 BT #CLASSICAL MECHANICS  
 SPACE MECHANICS  
 RT ASTRONAUTICS  
 ASTRONOMICAL OBSERVATORIES  
 #CELESTIAL BODIES  
 CELESTIAL MECHANICS  
 DYNAMICS  
 INTERPLANETARY FLIGHT  
 ORBITAL MECHANICS  
 #ORBITS  
 SPACE EXPLORATION  
 #SPACE FLIGHT  
 SPACE NAVIGATION  
 SPACECRAFT  
 TRAJECTORY ANALYSIS  
 ASTROGRAPHY  
 1901 3001  
 (EXCLUDES ASTRONOMICAL PHOTOGRAPHY)  
 RT ASTRONOMICAL MAPS  
 MAPPING  
 ASTROGUIDE NAVIGATION SYSTEM  
 2103  
 BT CELESTIAL NAVIGATION  
 INERTIAL NAVIGATION  
 RT INERTIAL COORDINATES  
 STAR TRACKERS  
 ASTROLOGY  
 0410 1901 3001  
 RT ASTRONOMY  
 CONSTELLATIONS  
 #FORECASTING  
 ZODIAC  
 ASTROMETRY  
 1901 3001  
 RT ASTRONOMICAL MAPS  
 ASTRONOMICAL PHOTOGRAPHY  
 ASTRONOMY  
 MEASUREMENT  
 PARALLAX  
 ASTRON THERMONUCLEAR REACTOR  
 2204 2205  
 BT #NUCLEAR REACTORS  
 RT RELATIVISTIC PLASMAS  
 THERMONUCLEAR POWER GENERATION  
 THERMONUCLEAR REACTIONS

ASTRONAUT LOCOMOTION  
 0502 0506 3104  
 BT LOCOMOTION  
 RT ASTRONAUT MANEUVERING EQUIPMENT  
 ASTRONAUT PERFORMANCE  
 ASTRONAUT TRAINING  
 EXTRAVEHICULAR ACTIVITY  
 LIFE SUPPORT SYSTEMS  
 MAN OPERATED PROPULSION SYSTEMS  
 ORBITAL WORKERS  
 ASTRONAUT MANEUVERING EQUIPMENT  
 0303 0502 0506  
 RT ASTRONAUT LOCOMOTION  
 EXTRAVEHICULAR ACTIVITY  
 HUMAN FACTORS ENGINEERING  
 IHLSS  
 INTRAVEHICULAR ACTIVITY  
 SELF MANEUVERING UNITS  
 WALKING MACHINES  
 ASTRONAUT PERFORMANCE  
 0401 0502 3104  
 NT BLACKOUT PREVENTION  
 BT #HUMAN PERFORMANCE  
 RT ASTRONAUT LOCOMOTION  
 ASTRONAUT TRAINING  
 CONFINEMENT  
 CONFINING  
 HUMAN FACTORS ENGINEERING  
 INTRAVEHICULAR ACTIVITY  
 MAN MACHINE SYSTEMS  
 OPERATOR PERFORMANCE  
 PHYSIOLOGICAL FACTORS  
 PILOT PERFORMANCE  
 PSYCHOLOGICAL FACTORS  
 SPACECRAFT PERFORMANCE  
 WEIGHTLESSNESS  
 ASTRONAUT TRAINING  
 0502 3104  
 BT #EDUCATION  
 RT ASTRONAUT LOCOMOTION  
 ASTRONAUT PERFORMANCE  
 EJECTION TRAINING  
 FLIGHT TRAINING  
 #LEARNING  
 PILOT TRAINING  
 SPACE FLIGHT TRAINING  
 SPACE MAINTENANCE  
 TRAINING SIMULATORS  
 ASTRONAUTICS  
 3009  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AEROSPACE ENVIRONMENTS  
 ARTIFICIAL GRAVITY  
 ASTRONICS  
 ASTRODYNAMICS  
 ASTRONAUTS  
 ASTRONOMY  
 AUXILIARY PROPULSION  
 AVIONICS  
 BIOASTRONAUTICS  
 BIOSATELLITE 3  
 COSMONAUTS  
 EARTH-VENUS TRAJECTORIES  
 HUMAN FACTORS ENGINEERING  
 LUNAR BASES  
 #PROPULSION  
 #SATELLITES  
 SOFT LANDING  
 SPACE EXPLORATION  
 #SPACE FLIGHT  
 SPACE MAINTENANCE  
 SPACE NAVIGATION  
 SPACECRAFT DOCKING  
 WEIGHTLESSNESS  
 ASTRONAUTS  
 0401 0402 0502 0506 3104 3110  
 NT ORBITAL WORKERS  
 BT FLYING PERSONNEL  
 #PERSONNEL  
 RT ASTRONAUTICS  
 COSMONAUTS  
 CREWS  
 PILOTS (PERSONNEL)  
 SPACECRAFT ENVIRONMENTS  
 SPACECREWS  
 ASTRONAVIGATION  
 2103 3001 3009 3104  
 BT CELESTIAL NAVIGATION  
 #NAVIGATION  
 RT AIR NAVIGATION

# ASTRONOMICAL SPECTROSCOPY

INTERPLANETARY NAVIGATION  
 INTERSTELLAR TRAVEL  
 RADIO NAVIGATION  
 ASTRONOMICAL CATALOGS  
 3001 3405  
 BT CATALOGS (PUBLICATIONS)  
 RT #CLASSIFICATIONS  
 EPHEMERIDES  
 TABLES (DATA)  
 ASTRONOMICAL COORDINATES  
 1304 1309 2103 3001  
 BT #COORDINATES  
 RT ASTRONOMICAL MAPS  
 AZIMUTH  
 GECENTRIC COORDINATES  
 PLANETOCENTRIC COORDINATES  
 PLANISPHERES  
 POLAR COORDINATES  
 SOLAR LONGITUDE  
 ASTRONOMICAL MAPS  
 1304 1309 2103 3001  
 NT PLANISPHERES  
 BT #MAPS  
 RT ASTROGRAPHY  
 ASTROMETRY  
 ASTRONOMICAL COORDINATES  
 CELESTIAL REFERENCE SYSTEMS  
 CELESTIAL SPHERE  
 LUNAR MAPS  
 ASTRONOMICAL MODELS  
 3001 3009  
 UF ORRERIES  
 BT #MODELS  
 RT COSMOLOGY  
 MATHEMATICAL MODELS  
 PLANETARIUMS  
 ASTRONOMICAL OBSERVATORIES  
 1106 1412 3001 3009  
 NT AOSO  
 HEAO  
 OAO  
 OSO  
 OSO-B  
 OSO-C  
 OSO-D  
 OSO-E  
 OSO-1  
 OSO-2  
 BT #OBSERVATORIES  
 RT ASTRODYNAMICS  
 ASTRONOMICAL PHOTOGRAPHY  
 ASTRONOMICAL TELESCOPES  
 ASTRONOMY  
 #CELESTIAL BODIES  
 GEOPHYSICAL OBSERVATORIES  
 JODRELL BANK OBSERVATORY  
 LUNAR OBSERVATORIES  
 RADIO ASTRONOMY  
 SPACEBORNE TELESCOPES  
 #TELESCOPES  
 ASTRONOMICAL PHOTOGRAPHY  
 1407 1412 3001 3009  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT AERIAL PHOTOGRAPHY  
 ASTROMETRY  
 ASTRONOMICAL OBSERVATORIES  
 ASTRONOMICAL TELESCOPES  
 ASTRONOMY  
 BAKER-NUNN CAMERA  
 BLACK AND WHITE PHOTOGRAPHY  
 CORONAGRAPHS  
 ELECTRO-OPTICAL PHOTOGRAPHY  
 INFRARED ASTRONOMY  
 INFRARED PHOTOGRAPHY  
 LALLEMAND CAMERAS  
 LUNAR PHOTOGRAPHS  
 LUNAR PHOTOGRAPHY  
 ROCKET-BORNE PHOTOGRAPHY  
 SATELLITE-BORNE PHOTOGRAPHY  
 SCHMIDT CAMERAS  
 SPACEBORNE PHOTOGRAPHY  
 SPACEBORNE TELESCOPES  
 ASTRONOMICAL PHOTOMETRY  
 0605 1411 2306 3001  
 NT STELLAR SPECTROPHOTOMETRY  
 BT #OPTICAL MEASUREMENT  
 PHOTOMETRY  
 RT ASTRONOMICAL SPECTROSCOPY  
 SPECTROPHOTOMETRY  
 ASTRONOMICAL SPECTROSCOPY  
 1411 2402 2901 2902 2903 3001 3002

# ASTRONOMICAL TELESCOPES

BT #SPECTROSCOPY  
RT ASTRONOMICAL PHOTOMETRY  
ASTRONOMY  
ELECTROMAGNETIC SPECTRA  
INFRARED SPECTROSCOPY  
RADIAL VELOCITY  
RADIATION SPECTRA  
RADIO ASTRONOMY  
RADIO SPECTROSCOPY  
RAMAN SPECTROSCOPY  
SOLAR SPECTRA  
#SPECTRA  
SPECTROSCOPIC TELESCOPES  
STELLAR SPECTRA  
ULTRAVIOLET SPECTROSCOPY  
X RAY SPECTROSCOPY  
ASTRONOMICAL TELESCOPES  
1412 3001  
NT APOLLO TELESCOPE MOUNT  
KILOMETER WAVE ORBITING TELESCOPE  
PYROHELIOMETERS  
SPECTROSCOPIC TELESCOPES  
STRATOSCOPE TELESCOPES  
X RAY TELESCOPES  
BT #OPTICAL EQUIPMENT  
#TELESCOPES  
RT ASTRONOMICAL OBSERVATORIES  
ASTRONOMICAL PHOTOGRAPHY  
CELESTIAL  
CORONAGRAPH  
MANNED ORBITAL TELESCOPES  
PARTICLE TELESCOPES  
RADIO TELESCOPES  
REFLECTING TELESCOPES  
REFRACTING TELESCOPES  
SCHMIDT CAMERAS  
SPACEBORNE TELESCOPES  
ASTRONOMY  
3001  
UP CELESTIAL OBSERVATION  
NT SPACEBORNE ASTRONOMY  
RT AEROSPACE SCIENCES  
ASTROLOGY  
ASTROMETRY  
ASTRONAUTICS  
ASTRONOMICAL OBSERVATORIES  
ASTRONOMICAL PHOTOGRAPHY  
ASTRONOMICAL SPECTROSCOPY  
ASTROPHYSICS  
#CELESTIAL BODIES  
CELESTIAL MECHANICS  
EARTH LIMB  
METEOROID SHOWERS  
SCIENCE  
SELENOLOGY  
SPACEBORNE TELESCOPES  
#TELESCOPES  
ASTROPHYSICS  
3002  
UP GEOASTROPHYSICS  
RT ASTRONOMY  
BRIGHTNESS TEMPERATURE  
#CELESTIAL BODIES  
CELESTIAL MECHANICS  
COSMOLOGY  
GALACTIC EVOLUTION  
GRAVITATIONAL COLLAPSE  
INTERSTELLAR EXTINCTION  
MICHELSON INTERFEROMETERS  
PHYSICS  
PLANETARY ROTATION  
RADIO INTERFEROMETERS  
STELLAR EVOLUTION  
#THEORETICAL PHYSICS  
ASTROPLANE  
3110  
BT AEROSPACEPLANES  
#MANEUVERABLE SPACECRAFT  
#MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
REUSABLE SPACECRAFT  
#SOFT LANDING SPACECRAFT  
RT ASTRO VEHICLE  
BOOSTGLIDE VEHICLES  
HYPERSONIC AIRCRAFT  
HYPERSONIC GLIDERS  
#LAUNCH VEHICLES  
LIFTING REENTRY VEHICLES  
LIQUID AIR CYCLE ENGINES  
#MILITARY SPACECRAFT  
RESEARCH AIRCRAFT

ROCKET PLANES  
X-20 AIRCRAFT  
ASYMMETRY  
1902 2311 3203  
UP DISSYMMETRY  
NONAXISYMMETRY  
RT ANTISYMMETRY  
DEVIATION  
DISTORTION  
ECCENTRICITY  
SHAPES  
SKEWNESS  
SYMMETRY  
#VARIATIONS  
ASYMPTOTES  
1902  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
REAL VARIABLES  
RT ANALYTIC GEOMETRY  
ASYMPTOTIC SERIES  
CALCULUS  
NUMERICAL ANALYSIS  
ASYMPTOTIC METHODS  
1902 1903  
BT #LEARNING  
PROBLEM SOLVING  
RT ASYMPTOTIC SERIES  
ITERATIVE SOLUTION  
LEARNING CURVES  
ASYMPTOTIC SERIES  
1902 1903  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
REAL VARIABLES  
SERIES (MATHEMATICS)  
RT ASYMPTOTES  
ASYMPTOTIC METHODS  
ATAIXIA  
0405  
BT #DISEASES  
RT MUSCLES  
ATAIXITE  
1806  
BT ROCKS  
RT BRECCIA  
ATELECTASIS  
0405  
BT #DISEASES  
RT LUNGS  
ATHENA ROCKET VEHICLE  
2003 3106 3108  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT BE-3 ENGINE  
#REENTRY VEHICLES  
SOLID PROPELLANT ROCKET ENGINES  
ATHLETES  
0401 0404 0408 0502 0506 3406  
RT PHYSICAL FITNESS  
ATHODYDS  
USE RAMJET ENGINES  
ATLANTIC AIRCRAFT  
USE BREGUET-1150 AIRCRAFT  
ATLANTIC OCEAN  
1305 1310  
BT OCEANS  
RT ACCORDION PROJECT  
BERMUDA  
GULF STREAM  
WALLOPS ISLAND  
WEST INDIES  
ATLAS ABLE 5 LAUNCH VEHICLE  
3103  
BT ATLAS LAUNCH VEHICLES  
#LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT LUNAR PROBES  
SPACE PROBES  
ATLAS AGENA B LAUNCH VEHICLE  
3103  
BT ATLAS LAUNCH VEHICLES  
#LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT AGENA ROCKET VEHICLES  
MARINER 2 SPACE PROBE  
MIDAS SATELLITES  
RANGER 4 LUNAR PROBE  
RANGER LUNAR PROBES  
XLR-81-BA-13 ENGINE

# NASA THESAURUS (ALPHABETICAL LISTING)

ATLAS AGENA LAUNCH VEHICLES  
3103  
NT ERS 18  
BT ATLAS LAUNCH VEHICLES  
#LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT AGENA ROCKET VEHICLES  
ENVIRONMENTAL RESEARCH SATELLITES  
ERS 17  
MARINER PROGRAM  
MARINER 5 SPACE PROBE  
MARINER 6 SPACE PROBE  
ATLAS CENTAUR LAUNCH VEHICLE  
3103  
BT ATLAS LAUNCH VEHICLES  
CENTAUR LAUNCH VEHICLE  
#LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT CENTAUR PROJECT  
OAO 1  
OAO 2  
OAO 3  
RL-10 ENGINES  
SURVEYOR 1 LUNAR PROBE  
SURVEYOR 2 LUNAR PROBE  
SURVEYOR 3 LUNAR PROBE  
SURVEYOR 4 LUNAR PROBE  
SURVEYOR 5 LUNAR PROBE  
SURVEYOR 6 LUNAR PROBE  
SURVEYOR 7 LUNAR PROBE  
SURVEYOR PROJECT  
ATLAS D ICBM  
3101 3401  
BT ATLAS ICBM  
BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
#MISSILES  
RT SURFACE TO SURFACE MISSILES  
CENTAUR LAUNCH VEHICLE  
STANDARD LAUNCH VEHICLES  
VEGA LAUNCH VEHICLE  
ATLAS E ICBM  
3101 3401  
BT ATLAS ICBM  
BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
#MISSILES  
RT SURFACE TO SURFACE MISSILES  
ATLAS F ICBM  
3401  
BT ATLAS ICBM  
BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
#MISSILES  
RT SURFACE TO SURFACE MISSILES  
ATLAS G ICBM  
3101 3401  
BT ATLAS ICBM  
BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
#MISSILES  
RT SURFACE TO SURFACE MISSILES  
ATLAS ICBM  
3101 3401  
NT ATLAS D ICBM  
ATLAS E ICBM  
ATLAS F ICBM  
ATLAS G ICBM  
BT BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
#MISSILES  
RT SURFACE TO SURFACE MISSILES  
MA-2 ENGINE  
MA-3 ENGINE  
ATLAS LAUNCH VEHICLES  
3103  
UP SM-65 MISSILE  
NT ATLAS ABLE 5 LAUNCH VEHICLE  
ATLAS AGENA B LAUNCH VEHICLE  
ATLAS AGENA LAUNCH VEHICLES  
ATLAS CENTAUR LAUNCH VEHICLE  
ATLAS SLV-3 LAUNCH VEHICLE  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT EGO  
GEMINI PROJECT  
MA-5 ENGINE  
MARINER PROGRAM  
MERCURY FLIGHTS

# NASA THESAURUS (ALPHABETICAL LISTING)

MERCURY MA-1 FLIGHT  
 MERCURY MA-2 FLIGHT  
 MERCURY MA-3 FLIGHT  
 MERCURY MA-4 FLIGHT  
 MERCURY MA-5 FLIGHT  
 MERCURY MA-6 FLIGHT  
 MERCURY MA-7 FLIGHT  
 MERCURY MA-8 FLIGHT  
 MERCURY MA-9 FLIGHT  
 MERCURY PROJECT  
 NOMAD LAUNCH VEHICLE  
 OAO  
 ORBITAL RENDEZVOUS  
 RANGER PROJECT  
 YLR-101-NA-13 ENGINE  
 YLR-101-NA-15 ENGINE  
 ATLAS SLV-3 LAUNCH VEHICLE  
 3103  
 UF STANDARD LAUNCH VEHICLE 3  
 BT ATLAS LAUNCH VEHICLES  
 #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 STANDARD LAUNCH VEHICLES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 MA-5 ENGINE  
 ATMOSPHERE EXPLORER A  
 USE EXPLORER 17 SATELLITE  
 ATMOSPHERE EXPLORER B  
 USE EXPLORER 32 SATELLITE  
 ATMOSPHERES  
 1301 1302 1408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIR  
 ATMOSPHERIC PRESSURE  
 CABIN ATMOSPHERES  
 #CONTROLLED ATMOSPHERES  
 #EARTH ATMOSPHERE  
 #ENVIRONMENTS  
 GAS MIXTURES  
 #GASES  
 HYPOBARIC ATMOSPHERES  
 LIFE SUPPORT SYSTEMS  
 #METEOROLOGY  
 NONGRAY ATMOSPHERES  
 NONGRAY GAS  
 PLANETARY ATMOSPHERES  
 SOLAR ATMOSPHERE  
 STELLAR ATMOSPHERES  
 ATMOSPHERIC ABSORPTION  
 USE ATMOSPHERIC ATTENUATION  
 ATMOSPHERIC ATTENUATION  
 1301 1302 2003 2301 2402  
 UF ATMOSPHERIC ABSORPTION  
 NT AURORAL ABSORPTION  
 BT #ATTENUATION  
 #RADIATION ABSORPTION  
 RT ACOUSTIC ATTENUATION  
 COSMIC RAY ALBEDO  
 ELECTROMAGNETIC ABSORPTION  
 ELECTROMAGNETIC SCATTERING  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 MOLECULAR ABSORPTION  
 PLANETARY ATMOSPHERES  
 RADAR ATTENUATION  
 RADAR TRANSMISSION  
 RADIO ATTENUATION  
 RADIO TRANSMISSION  
 SHOCK WAVE ATTENUATION  
 SHOCK WAVE PROPAGATION  
 THERMAL ABSORPTION  
 #TRANSMISSION  
 WAVE ATTENUATION  
 WAVE PROPAGATION  
 ATMOSPHERIC BOUNDARY LAYER  
 1301 1302 1308 2001 2003  
 BT BOUNDARY LAYERS  
 RT AIR FLOW  
 ATMOSPHERIC CIRCULATION  
 ATMOSPHERIC PHYSICS  
 BOUNDARY LAYER FLOW  
 ATMOSPHERIC CHEMISTRY  
 0601 1301 1302 2003 3008  
 RT AEROTHERMOCHEMISTRY  
 AIR POLLUTION  
 ATMOSPHERIC COMPOSITION  
 CHEMISTRY  
 PHOTOCHEMICAL REACTIONS  
 PHYSICAL CHEMISTRY

ATMOSPHERIC CIRCULATION  
 1203 1301 1302 2001 2003 3008  
 UF WIND CIRCULATION  
 BT #CIRCULATION  
 RT ADVECTION  
 AIR MASSES  
 ANNUAL VARIATIONS  
 ATMOSPHERIC BOUNDARY LAYER  
 ATMOSPHERIC DIFFUSION  
 CIRCUMPOLAR WESTERLIES  
 CLIMATOLOGY  
 #EARTH ATMOSPHERE  
 GROUND WIND  
 JET STREAMS (METEOROLOGY)  
 MERIDIONAL FLOW  
 MONSOONS  
 TORNADOES  
 TROPICAL STORMS  
 TYPHOONS  
 VERTICAL AIR CURRENTS  
 VORTICITY  
 #WIND (METEOROLOGY)  
 WIND DIRECTION  
 WIND PROFILES  
 ATMOSPHERIC COMPOSITION  
 0601 1301 1302 2003 3008  
 NT ATMOSPHERIC MOISTURE  
 IONOSPHERIC COMPOSITION  
 BT #COMPOSITION (PROPERTY)  
 RT AERONOMY  
 AIR  
 AIR POLLUTION  
 ATMOSPHERIC CHEMISTRY  
 ATMOSPHERIC DENSITY  
 ATMOSPHERIC PHYSICS  
 ATMOSPHERIC STRATIFICATION  
 CARBON DIOXIDE CONCENTRATION  
 CHEMICAL COMPOSITION  
 #EARTH ATMOSPHERE  
 ELECTRON DENSITY (CONCENTRATION)  
 GAS COMPOSITION  
 MOISTURE CONTENT  
 PLANETARY ATMOSPHERES  
 RADIOACTIVE CONTAMINANTS  
 ATMOSPHERIC CONDITIONS  
 USE #METEOROLOGY  
 ATMOSPHERIC CONDUCTIVITY  
 1301 1302 2003 2302 3008  
 NT IONOSPHERIC CONDUCTIVITY  
 BT #TRANSPORT PROPERTIES  
 RT AIR CONDUCTIVITY  
 ATMOSPHERIC ELECTRICITY  
 ATMOSPHERIC HEATING  
 ATMOSPHERIC IONIZATION  
 CONDUCTIVITY  
 ELECTRICAL RESISTIVITY  
 THERMAL CONDUCTIVITY  
 ATMOSPHERIC DENSITY  
 0101 1301 1302 2003 3008  
 BT DENSITY (MASS/VOLUME)  
 RT AIR POLLUTION  
 ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC DIFFUSION  
 ATMOSPHERIC PRESSURE  
 ATMOSPHERIC SCATTERING  
 ATMOSPHERIC STRATIFICATION  
 ATMOSPHERIC TEMPERATURE  
 BOLTZMANN DISTRIBUTION  
 DENSITY  
 #DENSITY (NUMBER/VOLUME)  
 ELECTRON DENSITY (CONCENTRATION)  
 HUMIDITY  
 ION DENSITY (CONCENTRATION)  
 MAGNETOSPHERIC ELECTRON DENSITY  
 MAGNETOSPHERIC ION DENSITY  
 MAGNETOSPHERIC PROTON DENSITY  
 #METEOROLOGY  
 PARTICLE DENSITY (CONCENTRATION)  
 PLANETARY ATMOSPHERES  
 PLASMA DENSITY  
 PROTON DENSITY (CONCENTRATION)  
 SPACE DENSITY  
 ATMOSPHERIC DIFFUSION  
 1202 1301 1302 2003 3008  
 BT #DIFFUSION  
 RT ATMOSPHERIC CIRCULATION  
 ATMOSPHERIC DENSITY  
 ATMOSPHERIC PHYSICS  
 ATMOSPHERIC SCATTERING  
 ATMOSPHERIC TURBULENCE  
 BOLTZMANN DISTRIBUTION  
 MOLECULAR DIFFUSION

# ATHOSPHERIC MODELS

RADIO SCATTERING  
 TURBULENT DIFFUSION  
 ATMOSPHERIC ELECTRICITY  
 1301 1302 2001 2003 2304 3008  
 NT AURORAL ELECTROJETS  
 ELECTROJETS  
 EQUATORIAL ELECTROJET  
 IONOSPHERIC CURRENTS  
 BT #ELECTRICITY  
 RT ATMOSPHERIC CONDUCTIVITY  
 ATMOSPHERIC IONIZATION  
 ATMOSPHERICS  
 CLOUD PHYSICS  
 #EARTH ATMOSPHERE  
 ELECTRIC CORONA  
 ELECTRON DENSITY PROFILES  
 LIGHTNING  
 RING CURRENTS  
 STATIC ELECTRICITY  
 TELLURIC CURRENTS  
 ATMOSPHERIC EMISSION  
 USE AIRGLOW  
 #ATMOSPHERIC ENTRY  
 1301 1302 3007 3008 3105  
 UF PLANETARY ENTRY  
 NT HYPERBOLIC REENTRY  
 HYPERSONIC REENTRY  
 MANNED REENTRY  
 REENTRY  
 RT SPACECRAFT REENTRY  
 ABLATION  
 AERODYNAMIC HEATING  
 BOLIDES  
 DESCENT TRAJECTORIES  
 #EARTH ATMOSPHERE  
 ENTRY  
 FALLING  
 GAS GUNS  
 ORBIT DECAY  
 #SPACE FLIGHT  
 ATMOSPHERIC ENTRY SIMULATION  
 1106 1107 3105  
 BT EXHAUST FLOW SIMULATION  
 #SIMULATION  
 RT ENVIRONMENT SIMULATION  
 FLIGHT SIMULATORS  
 LANDING SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 ATMOSPHERIC HEAT BUDGET  
 1301 1302 3303 3304  
 BT #ENERGY BUDGETS  
 HEAT BUDGET  
 RT #ATMOSPHERIC RADIATION  
 GREENHOUSE EFFECT  
 HEAT BALANCE  
 HEAT TRANSFER  
 ATMOSPHERIC HEATING  
 0101 2003 3105 3303  
 (EXCLUDES AERODYNAMIC HEATING)  
 BT #HEATING  
 RT ATMOSPHERIC CONDUCTIVITY  
 BOLIDES  
 ATMOSPHERIC IMPURITIES  
 USE AIR POLLUTION  
 ATMOSPHERIC IONIZATION  
 0605 1301 1302 2001 2003 2304  
 UF METEORITIC IONIZATION  
 NT AURORAL IONIZATION  
 BT GAS IONIZATION  
 #IONIZATION  
 RT AFTERGLOWS  
 AIRGLOW  
 ANTARES ROCKET VEHICLE  
 ATMOSPHERIC CONDUCTIVITY  
 ATMOSPHERIC ELECTRICITY  
 ELECTRON DENSITY PROFILES  
 IONOSPHERE  
 PHOTOIONIZATION  
 RADIO METEORS  
 RIOMETERS  
 ATMOSPHERIC MODELS  
 1107  
 NT BREADBOARD MODELS  
 DYNAMIC MODELS  
 REFERENCE ATMOSPHERES  
 BT #MODELS  
 RT DYNAMIC MODELS  
 ENVIRONMENT MODELS  
 ENVIRONMENT SIMULATION  
 MATHEMATICAL MODELS  
 NUMERICAL WEATHER FORECASTING  
 WEATHER FORECASTING

# ATMOSPHERIC MOISTURE

## ATMOSPHERIC MOISTURE

1301 1302 2001 2003 3008  
 BT #ATMOSPHERIC COMPOSITION  
 #COMPOSITION (PROPERTY)  
 CONCENTRATION (COMPOSITION)  
 MOISTURE CONTENT  
 RT CLOUDS (METEOROLOGY)  
 HUMIDITY  
 PRECIPITATION (METEOROLOGY)  
 PSYCHROMETERS  
 WATER VAPOR  
 ATMOSPHERIC NEUTRON FLUX DENSITY  
 USE #ATMOSPHERIC RADIATION  
 NEUTRON FLUX DENSITY  
 ATMOSPHERIC NOISE  
 USE ATMOSPHERICS  
 ATMOSPHERIC OPTICS  
 1302 2306 2311  
 RT #ATMOSPHERIC REFRACTION  
 ATMOSPHERIC SCATTERING  
 CLARITY  
 HAZE  
 LIGHT TRANSMISSION  
 OPACITY  
 TRANSPARENCY  
 ATMOSPHERIC PHYSICS  
 1202 1203 1301 1302 2003 3008  
 UP AEROPHYSICS  
 NT CLOUD PHYSICS  
 RT AERONOMY  
 ATMOSPHERIC BOUNDARY LAYER  
 ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC DIFFUSION  
 ATMOSPHERIC REFRACTION  
 ATMOSPHERIC TEMPERATURE  
 #METEOROLOGY  
 ATMOSPHERIC PRESSURE  
 1301 1302 1309 1408 2003 3008  
 UP BAROMETRIC PRESSURE  
 BT #PRESSURE  
 RT ANTICYCLONES  
 ATMOSPHERES  
 ATMOSPHERIC DENSITY  
 ATMOSPHERIC STRATIFICATION  
 ATMOSPHERIC TIDES  
 CYCLONES  
 GAS PRESSURE  
 GEOPOTENTIAL HEIGHT  
 HIGH ALTITUDE PRESSURE  
 ISOBARS (PRESSURE)  
 ISOSTATIC PRESSURE  
 PRESSURE GRADIENTS  
 WEATHER  
 #ATMOSPHERIC RADIATION  
 1301 1302 2003 2402  
 UP ATMOSPHERIC NEUTRON FLUX DENSITY  
 NT AIRGLOW  
 AURORAL ARCS  
 AURORAS  
 DAWN CHORUS  
 DAYGLOW  
 GEOCORONAL EMISSIONS  
 IONOSPHERIC NOISE  
 NIGHTGLOW  
 RADIO AURORAS  
 RED ARCS  
 SKY RADIATION  
 STRATOSPHERE RADIATION  
 TROPOSPHERIC RADIATION  
 TWILIGHT GLOW  
 WHISTLERS  
 RT ATMOSPHERIC HEAT BUDGET  
 CORPUSCULAR RADIATION  
 #ELECTROMAGNETIC RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 GREENHOUSE EFFECT  
 IONOSPHERIC HEATING  
 LIGHT (VISIBLE RADIATION)  
 RADIATION  
 RAYS  
 SECONDARY COSMIC RAYS  
 TERRESTRIAL RADIATION  
 VLP EMISSION RECORDERS  
 ATMOSPHERIC REFRACTION  
 1301 1302 2003 2402 2902 2903  
 UP STELLAR REFRACTION  
 NT RADIO WAVE REFRACTION  
 BT #REFRACTION  
 RT ATMOSPHERIC OPTICS  
 ATMOSPHERIC PHYSICS  
 #ELECTROMAGNETIC RADIATION  
 LIGHT TRANSMISSION

REFRACTIVITY  
 SOLAR RADIATION  
 WAVE DISPERSION  
 ATMOSPHERIC SCATTERING  
 1301 1302 2003 2402 2901 2902 2903  
 NT TROPOSPHERIC SCATTERING  
 BT #SCATTERING  
 WAVE SCATTERING  
 RT ATMOSPHERIC DENSITY  
 ATMOSPHERIC DIFFUSION  
 ATMOSPHERIC OPTICS  
 DIFFRACTION  
 #DIFFUSION  
 ELECTROMAGNETIC SCATTERING  
 HALOS  
 LIGHT SCATTERING  
 MICROWAVE SCATTERING  
 RADIO SCATTERING  
 SIGNAL FADING  
 ATMOSPHERIC SHELLS  
 USE ATMOSPHERIC STRATIFICATION  
 ATMOSPHERIC STRATIFICATION  
 1301 1302 2003 3008  
 UP ATMOSPHERIC SHELLS  
 BT STRATIFICATION  
 RT ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC DENSITY  
 ATMOSPHERIC PRESSURE  
 ATMOSPHERIC TEMPERATURE  
 PLASMA LAYERS  
 SURFACE LAYERS  
 ATMOSPHERIC TEMPERATURE  
 1301 1302 1408 2003 3008  
 NT AURORAL TEMPERATURE  
 IONOSPHERIC TEMPERATURE  
 BT #TEMPERATURE  
 RT AMBIENT TEMPERATURE  
 ATMOSPHERIC DENSITY  
 ATMOSPHERIC PHYSICS  
 ATMOSPHERIC STRATIFICATION  
 GAS TEMPERATURE  
 ISOTHERMS  
 PLANETARY ATMOSPHERES  
 PLANETARY TEMPERATURE  
 SUBZERO TEMPERATURE  
 TEMPERATURE GRADIENTS  
 TEMPERATURE INVERSIONS  
 WEATHER  
 ATMOSPHERIC TIDES  
 1301 1302 1309 1901 2003  
 BT TIDES  
 RT ATMOSPHERIC PRESSURE  
 LUNAR TIDES  
 ATMOSPHERIC TURBULENCE  
 1202 1203 1301 1302 2003  
 NT CLEAR AIR TURBULENCE  
 GUSTS  
 LOW LEVEL TURBULENCE  
 BT #TURBULENCE  
 RT ATMOSPHERIC DIFFUSION  
 DISSIPATION  
 GUST LOADS  
 HOMOGENEOUS TURBULENCE  
 ISOTROPIC TURBULENCE  
 LAMINAR FLOW  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 TEPHIGRAMS  
 TURBULENT DIFFUSION  
 TURBULENT FLOW  
 WIND VARIATIONS  
 ATMOSPHERICS  
 1301 1302 2003 2402  
 UP ATMOSPHERIC NOISE  
 SPHERICS  
 NT DAWN CHORUS  
 HISS  
 IONOSPHERICS  
 SUDDEN ENHANCEMENT OF ATMOSPHERICS  
 WHISTLERS  
 BT BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 ELECTROMAGNETIC NOISE  
 RADIO FREQUENCY INTERFERENCE  
 RT ATMOSPHERIC ELECTRICITY  
 ELECTROMAGNETIC COMPATIBILITY  
 RADIO METEOROLOGY  
 RADIO WAVES  
 STATIC ELECTRICITY  
 THUNDERSTORMS  
 VLP EMISSION RECORDERS

# NASA THESAURUS (ALPHABETICAL LISTING)

ATOMIC CONCENTRATION  
 0603 1202 1203 2311 2401  
 BT #COMPOSITION (PROPERTY)  
 CONCENTRATION (COMPOSITION)  
 RT CHEMICAL COMPOSITION  
 DENSITY  
 ELECTRON DENSITY (CONCENTRATION)  
 FLUX DENSITY  
 GAS COMPOSITION  
 GAS DENSITY  
 ION DENSITY (CONCENTRATION)  
 IONOSPHERIC COMPOSITION  
 PLASMA COMPOSITION  
 PLASMA DENSITY  
 PROTON DENSITY (CONCENTRATION)  
 ATOMIC BATTERIES  
 USE RADIOISOTOPE BATTERIES  
 ATOMIC BEAMS  
 1506 2401  
 BT #BEAMS (RADIATION)  
 PARTICLE BEAMS  
 RT ION BEAMS  
 MOLECULAR BEAMS  
 NEUTRAL BEAMS  
 NEUTRON BEAMS  
 PARTICLE DIFFUSION  
 RAREFIED GAS DYNAMICS  
 ATOMIC BOMBS  
 USE FISSION WEAPONS  
 ATOMIC CLOCKS  
 1406 2401  
 BT CLOCKS  
 #MEASURING INSTRUMENTS  
 TIME MEASURING INSTRUMENTS  
 RT CHRONOMETERS  
 CLOCK PARADOX  
 FREQUENCY STANDARDS  
 GAS MASERS  
 MASERS  
 MOLECULAR BEAMS  
 TIME MEASUREMENT  
 ATOMIC COLLISIONS  
 1202 1203 2401  
 BT COLLISIONS  
 RT ABSORPTION  
 ATOMIZING  
 AUTOIONIZATION  
 CROSS SECTIONS  
 ELASTIC SCATTERING  
 ELECTRON SCATTERING  
 IONIC COLLISIONS  
 #IONIZATION  
 MOLECULAR COLLISIONS  
 PARTICLE COLLISIONS  
 RECOIL IONS  
 #RECOMBINATION REACTIONS  
 #SCATTERING  
 ATOMIC ENERGY  
 USE NUCLEAR ENERGY  
 ATOMIC ENERGY LEVELS  
 1203 2403 2601  
 UP TRIPLET EXCITATION  
 TRIPLET STATE  
 BT ENERGY LEVELS  
 #LEVEL (QUANTITY)  
 RT #EXCITATION  
 GROUND STATE  
 LINE SPECTRA  
 SPONTANEOUS EMISSION  
 ATOMIC EXCITATIONS  
 2401 2403  
 BT #EXCITATION  
 RT ENERGY LEVELS  
 HEISENBERG THEORY  
 #IONIZATION  
 MOLECULAR EXCITATION  
 PARTICLE COLLISIONS  
 ATOMIC EXPLOSIONS  
 USE NUCLEAR EXPLOSIONS  
 ATOMIC GASES  
 USE MONATOMIC GASES  
 ATOMIC MOBILITIES  
 2502 2602  
 BT MOBILITY  
 RT ELECTRON MOBILITY  
 HOLE MOBILITY  
 IONIC MOBILITY  
 ATOMIC PHYSICS  
 2311 2401  
 RT ATOMIC THEORY  
 PHYSICS

# **WASA THESAURUS (ALPHABETICAL LISTING)**

**ATOMIC RECOMBINATION**  
0603 1704 3404  
BT OXYGEN RECOMBINATION  
BT #CHEMICAL REACTIONS  
BT #RECOMBINATION REACTIONS  
BT DEIONIZATION  
DISSOCIATION  
EMISSION  
EMISSION SPECTRA  
ION RECOMBINATION  
RADIATIVE RECOMBINATION  
**ATOMIC SPECTRA**  
0601 0603 1411 2401 2404  
BT #SPECTRA  
BT BALMER SERIES  
LYMAN ALPHA RADIATION  
LYMAN BETA RADIATION  
LYMAN SPECTRA  
PASCHEN SERIES  
RYDBERG SERIES  
**ATOMIC STRUCTURE**  
2401  
UP ELECTRONIC STRUCTURE  
BT ATOMS  
CONSTITUTION  
#CRYSTAL LATTICES  
ELEMENTARY PARTICLES  
ENERGY LEVELS  
GRAVITONS  
HARTREE APPROXIMATION  
HYPERFINE STRUCTURE  
INTERATOMIC FORCES  
MOLECULAR STRUCTURE  
NUCLEAR CHEMISTRY  
NUCLEAR MODELS  
#NUCLEAR PHYSICS  
OCTETS  
ORDER-DISORDER TRANSFORMATIONS  
PAULI EXCLUSION PRINCIPLE  
POLYMER  
STRUCTURES  
THOMAS-FERMI MODEL  
**ATOMIC THEORY**  
2401  
BT HEISENBERG THEORY  
BT ATOMIC PHYSICS  
ELECTRON TRANSITIONS  
GROUND STATE  
NUCLEAR ENERGY  
QUANTUM THEORY  
THEORIES  
**ATOMIZATION**  
USE ATOMIZING  
**ATOMIZERS**  
0505 0603 1202 1504  
BT ATOMIZING  
EVAPORATORS  
GRINDING MILLS  
NOZZLES  
SPRAYERS  
**ATOMIZING**  
1502 3407  
UP ATOMIZATION  
BT AEROSOLS  
ATOMIC COLLISIONS  
ATOMIZERS  
COLLOIDAL GENERATORS  
COLLOIDING  
COMMINUTION  
DISINTEGRATION  
FLAKING  
GRINDING (COMMINUTION)  
GRINDING MILLS  
METAL POWDER  
SPRAYING  
**ATOMS**  
1703 1804 1807 1808 2401 2404 2405  
BT METASTABLE ATOMS  
OXYGEN ATOMS  
RECOIL ATOMS  
BT ATOMIC STRUCTURE  
#CHEMICAL ELEMENTS  
ELEMENTS  
FREE RADICALS  
#IONS  
ISOMERS  
ISOTOPE SEPARATION  
ISOTOPES  
#MOLECULES  
NONATOMIC MOLECULES  
NUCLEI (NUCLEAR PHYSICS)  
POLYATOMIC MOLECULES

**POSITRONIUM**  
**ATP**  
USE ADENOSINE TRIPHOSPHATE (ATP)  
**ATR REACTOR**  
USE ADVANCED TEST REACTORS  
**ATROPHY**  
0405 0406  
BT BIOLOGICAL EFFECTS  
DEGENERATION  
DETERIORATION  
NUTRITIONAL REQUIREMENTS  
TISSUES (BIOLOGY)  
**ATROPINE**  
0403 0405 1808  
BT ALKALOIDS  
#DRUGS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
STIMULANT  
**ATS (SATELLITES)**  
USE APPLICATIONS TECHNOLOGY SATELLITES  
**ATS 1**  
3110 3403 3107  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 2**  
3107 3110 3403  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 3**  
3110 3403 3107  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 4**  
3107 3110 3403  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 5**  
3110 3403 3107  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 6**  
3107 3110 3403  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 7**  
3107 3110 3403  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATS 8**  
3107 3110 3403  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ATSAN MISSILES**  
3101 3401  
BT #MISSILES  
**ATTACHMENT**  
0603 1201 2401 2403  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED

**#ATTENUATION**  
BELOW)  
UP REATTACHMENT  
BT ASSEMBLING  
COANDA EFFECT  
MOUNTING  
REATTACHED FLOW  
**ATTACHMENTS**  
USE ACCESSORIES  
**ATTACK**  
3401  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT ATTACKING (ASSAULTING)  
CHEMICAL ATTACK  
**ATTACK AIRCRAFT**  
0207 3401  
UP SUPERSONIC STRIKE AIRCRAFT  
BT A-1 AIRCRAFT  
A-2 AIRCRAFT  
A-3 AIRCRAFT  
A-4 AIRCRAFT  
A-5 AIRCRAFT  
A-6 AIRCRAFT  
A-7 AIRCRAFT  
A-37 AIRCRAFT  
BREGUET 1150 AIRCRAFT  
BUCCANEER AIRCRAFT  
CL-28 AIRCRAFT  
DH 110 AIRCRAFT  
F-14 AIRCRAFT  
F-15 AIRCRAFT  
JAGUAR AIRCRAFT  
P-1067 AIRCRAFT  
TSR-2 AIRCRAFT  
BT AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
BOMBER AIRCRAFT  
FIGHTER AIRCRAFT  
#JET AIRCRAFT  
MILITARY AIRCRAFT  
MILITARY HELICOPTERS  
#SUPERSONIC AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
#V/STOL AIRCRAFT  
**ATTACKING (ASSAULTING)**  
3401  
UP ASSAULTING  
BT VIOLENCE  
BT ATTACK  
MILITARY AIRCRAFT  
TACTICS  
WARFARE  
**ATTENTION**  
0408 0410  
BT ALERTNESS  
CONSCIOUSNESS  
**#ATTENUATION**  
0702 0710 1001 1002 1202 1308 2311  
BT ACOUSTIC ATTENUATION  
ATMOSPHERIC ATTENUATION  
AURORAL ABSORPTION  
RADAR ATTENUATION  
RADIO ATTENUATION  
SHOCK WAVE ATTENUATION  
SIDELOBE REDUCTION  
WAVE ATTENUATION  
BT ABSORPTION  
#ATTENUATORS  
CONDUCTION  
DAMPING  
DIFFRACTION  
DILUTION  
DISSIPATION  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC WAVE TRANSMISSION  
ELIMINATION  
#FADING  
IMPINGEMENT  
INHIBITION  
INTERNAL FRICTION  
LIGHT (VISIBLE RADIATION)  
MECHANICAL IMPEDANCE  
PROPAGATION  
REDUCTION  
RETARDING  
#SHIELDING  
SIGNAL FADING  
SIGNAL TO NOISE RATIOS  
SOUND PROPAGATION  
SOUND TRANSMISSION  
SPATIAL FILTERING



# ATTENUATION COEFFICIENTS

\*TRANSMISSION  
TRANSMISSION LOSS  
\*TRANSMITTERS  
VIBRATION DAMPING  
WAVE DEGRADATION  
WAVE DIFFRACTION  
WAVE DISPERSION  
WAVE PROPAGATION  
ATTENUATION COEFFICIENTS  
0710 1001 1202 2301 2310  
BT \*COEFFICIENTS  
RT DIFFUSION COEFFICIENT  
FLOW COEFFICIENTS  
\*IMPEDANCE  
OPACITY  
REFLECTANCE  
SCATTERING COEFFICIENTS  
TRANSMISSION EFFICIENCY  
TRANSMITTANCE  
\*ATTENUATORS  
0701 0902 0903  
NT POTENTIOMETERS (RESISTORS)  
PRINTED RESISTORS  
RESISTORS  
THERMISTORS  
BT ABSORBERS  
ABSORBERS (MATERIALS)  
\*ATTENUATION  
BAFFLES  
DEFLECTORS  
DIFFUSERS  
ELECTROMAGNETIC WAVE FILTERS  
FILTERS  
INSULATORS  
INVERTERS  
ISOLATORS  
MUFFLERS  
POWER LIMITERS  
RADIATION SHIELDING  
\*REFLECTORS  
\*SHIELDING  
SILENCERS  
SUPPRESSORS  
ATTITUDE (INCLINATION)  
0410 2102 2103 3006 3110  
UP SPATIAL ORIENTATION  
TILT  
TILTING  
NT PITCH (INCLINATION)  
RT \*ATTITUDE CONTROL  
ATTITUDE INDICATORS  
INSTRUMENT ORIENTATION  
MOTION  
ORIENTATION  
POSITION  
SPACE ORIENTATION  
\*ATTITUDE CONTROL  
0203 1402 1410  
UP REACTION JET ATTITUDE CONTROL  
NT DIRECTIONAL CONTROL  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
SATELLITE ATTITUDE CONTROL  
THRUST VECTOR CONTROL  
RT AIR TRAFFIC CONTROL  
AIRCRAFT CONTROL  
ATTITUDE (INCLINATION)  
ATTITUDE GYROS  
ATTITUDE INDICATORS  
ATTITUDE STABILITY  
\*AUTOMATIC CONTROL  
CONTROL  
CONTROL MOMENT GYROSCOPES  
\*FLIGHT CONTROL  
GUIDANCE SENSORS  
HELICOPTER CONTROL  
HORIZON SCANNERS  
MAGNETIC CONTROL  
MANUAL CONTROL  
MISSILE CONTROL  
REACTION WHEELS  
REMOTE CONTROL  
ROCKET ENGINE CONTROL  
SATELLITE CONTROL  
SOLAR SENSORS  
\*SPACECRAFT CONTROL  
SPACING  
SPIN STABILIZATION  
STAR TRACKERS  
THRUST CONTROL  
TRAJECTORY CONTROL  
VISUAL CONTROL

ATTITUDE GYROS  
0202 1402 1403 1410  
NT GYRO HORIZONS  
BT \*GYROSCOPES  
RT \*ATTITUDE CONTROL  
ATTITUDE INDICATORS  
CONTROL MOMENT GYROSCOPES  
ATTITUDE INDICATORS  
0202 1402 1410  
UP HELICOPTER ATTITUDE INDICATORS  
YAWMETERS  
NT GYRO HORIZONS  
BT \*AIRCRAFT INSTRUMENTS  
\*FLIGHT INSTRUMENTS  
INDICATING INSTRUMENTS  
\*MEASURING INSTRUMENTS  
RT ATTITUDE (INCLINATION)  
\*ATTITUDE CONTROL  
ATTITUDE GYROS  
CONTROL MOMENT GYROSCOPES  
\*FLIGHT CONTROL  
\*NAVIGATION AIDS  
ATTITUDE STABILITY  
2102  
UP SATELLITE ATTITUDE DISTURBANCE  
NT DIRECTIONAL STABILITY  
GYROSCOPIC STABILITY  
LATERAL STABILITY  
LONGITUDINAL STABILITY  
BT \*DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
\*STABILITY  
RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
\*ATTITUDE CONTROL  
HOVERING STABILITY  
LOW SPEED STABILITY  
SATELLITE ATTITUDE CONTROL  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
TUMBLING MOTION  
ATTRACTION  
3408  
RT AFFINITY  
FORCE  
ATTRIBUTES  
USE PROPERTIES  
ATTRITION (MATERIALS)  
USE COMMINUTION  
AUDIO EQUIPMENT  
0701 0705 1402 1409 1410 2301  
NT EARPHONES  
LOUDSPEAKERS  
MICROPHONES  
RT EQUIPMENT  
MONAURAL SIGNALS  
AUDIO FREQUENCIES  
0408 2301  
(APPROXIMATELY 20 TO 20,000 HZ)  
BT \*FREQUENCIES  
RT ACOUSTIC MEASUREMENTS  
AUDITORY PERCEPTION  
EXTREMELY LOW RADIO FREQUENCIES  
MONAURAL SIGNALS  
RADIO FREQUENCIES  
SOUND GENERATORS  
SOUND TRANSMISSION  
SOUND WAVES  
VERY LOW FREQUENCIES  
VOICE  
AUDIO VISUAL EQUIPMENT  
USE TRAINING DEVICES  
VISUAL AIDS  
AUDIOLOGY  
0404 0408 2301  
BT PHYSIOLOGY  
RT AUDIOMETRY  
AUDITORY PERCEPTION  
HEARING  
AUDIOMETRY  
0404 0502 2301  
RT ACOUSTIC MEASUREMENTS  
AUDIOLOGY  
AUDITORY DEFECTS  
AUDITORY PERCEPTION  
AUDITORY STIMULI  
HEARING  
MASKING  
MEASUREMENT  
THRESHOLDS (PERCEPTION)

# BASA TREASURUS (ALPHABETICAL LISTING)

AUDITORY DEFECTS  
0404 0408  
UP DEAFNESS  
HEARING LOSS  
BT \*DEFECTS  
RT AUDIOMETRY  
AUDITORY PERCEPTION  
BIOACOUSTICS  
LOSSES  
AUDITORY FATIGUE  
0408  
BT FATIGUE (BIOLOGY)  
AUDITORY PERCEPTION  
0404 0408 0701 1409 2301  
UP SOUND PERCEPTION  
BT \*PERCEPTION  
SENSORY PERCEPTION  
RT ACOUSTICS  
AUDIO FREQUENCIES  
AUDIOLOGY  
AUDIOMETRY  
AUDITORY DEFECTS  
AUDITORY SENSATION AREAS  
AUDITORY STIMULI  
BINAURAL HEARING  
EAR  
EARPHONES  
MONAURAL SIGNALS  
NOISE THRESHOLD  
PSYCHOACOUSTICS  
\*SENSITIVITY  
SOUND LOCALIZATION  
SOUND WAVES  
\*SPEECH  
THRESHOLDS (PERCEPTION)  
WEBER TEST  
AUDITORY SENSATION AREAS  
0404 0408 2301  
RT AUDITORY PERCEPTION  
THRESHOLDS (PERCEPTION)  
AUDITORY SIGNALS  
0404 0408 1410 2301  
UP CHIMES  
RT BELLS  
HORNS  
MONAURAL SIGNALS  
PSYCHOACOUSTICS  
SIGNAL MIXING  
SIGNALS  
WARNING  
\*WARNING SYSTEMS  
AUDITORY STIMULI  
0404 0408 2301  
BT STIMULATION  
RT ACOUSTICS  
AUDIOMETRY  
AUDITORY PERCEPTION  
NOISE (SOUND)  
NOISE INTENSITY  
SOUND GENERATORS  
SOUND INTENSITY  
STIMULI  
THRESHOLDS (PERCEPTION)  
AUDITORY TASKS  
0404 0408 0702  
BT TASKS  
RT ACOUSTICS  
AUGER EFFECT  
2401 2901 3008 3009  
RT COSMIC RAY SHOWERS  
EFFECTS  
ELECTRON TRANSITIONS  
AUGMENTATION  
1407 1901  
UP ENHANCEMENT  
NT THRUST AUGMENTATION  
RT INCREASING  
SPATIAL FILTERING  
AURIGA CONSTELLATION  
3001  
BT CONSTELLATIONS  
AURORA 7  
3104 3110 3409  
BT \*MANNED SPACECRAFT  
MERCURY SPACECRAFT  
RECOVERABLE SPACECRAFT  
\*REENTRY VEHICLES  
\*SOFT LANDING SPACECRAFT  
\*SPACE CAPSULES  
RT MERCURY HA-7 FLIGHT  
AURORAL ABSORPTION  
0605 1302 2306

# NASA THESAURUS (ALPHABETICAL LISTING)

BT ATMOSPHERIC ATTENUATION  
 #ATTENUATION  
 ELECTROMAGNETIC ABSORPTION  
 #ENERGY ABSORPTION  
 #RADIATION ABSORPTION  
 RT AURORAL IONIZATION  
 AURORAL IRRADIATION  
 AURORAL SPECTROSCOPY  
 LIGHT EMISSION  
 RIOMETERS  
 AURORAL ACTIVITY  
 USE AURORAS  
 AURORAL ARCS  
 0605 1302 1307 2003 2306  
 BT RED ARCS  
 BT #ATMOSPHERIC RADIATION  
 AURORAS  
 RT ARCS  
 AURORAL ECHOES  
 0605 1302 2003 2306  
 BT #ECHOES  
 RT AURORAL IONIZATION  
 RADAR ECHOES  
 RADIO ECHOES  
 AURORAL ELECTROJETS  
 0605 1302 2003 2306 2402  
 BT ATMOSPHERIC ELECTRICITY  
 #ELECTRIC CURRENT  
 #ELECTRICITY  
 ELECTROJETS  
 IONOSPHERIC CURRENTS  
 RT EQUATORIAL ELECTROJET  
 TELLURIC CURRENTS  
 AURORAL EMISSION  
 USE AURORAS  
 LIGHT EMISSION  
 AURORAL IONIZATION  
 0605 1302 2003 2306 2403 2902  
 BT ATMOSPHERIC IONIZATION  
 GAS IONIZATION  
 #IONIZATION  
 RT AURORAL ABSORPTION  
 AURORAL ECHOES  
 AURORAL IRRADIATION  
 AURORAL TEMPERATURE  
 AURORAS  
 #EXCITATION  
 LIGHT EMISSION  
 PHOTOIONIZATION  
 RED ARCS  
 AURORAL IRRADIATION  
 0605 1302 2003 2306 2403  
 BT #IRRADIATION  
 RT AURORAL ABSORPTION  
 AURORAL IONIZATION  
 AURORAS  
 ELECTRON IRRADIATION  
 #EXCITATION  
 ION IRRADIATION  
 PHOTOIONIZATION  
 AURORAL SPECTROSCOPY  
 0605 1302 1411 2003 2306  
 BT #SPECTROSCOPY  
 RT AURORAL ABSORPTION  
 FABRY-PEROT SPECTROMETERS  
 LIGHT EMISSION  
 OPTICAL EMISSION SPECTROSCOPY  
 SPECTROSCOPIC ANALYSIS  
 AURORAL TEMPERATURE  
 1302 2003 2402 3303  
 BT ATMOSPHERIC TEMPERATURE  
 #TEMPERATURE  
 RT AURORAL IONIZATION  
 AURORAS  
 ION TEMPERATURE  
 IONOSPHERIC TEMPERATURE  
 AURORAL ZONES  
 0605 1302 1307 2003 2306  
 BT #REGIONS  
 RT AURORAS  
 MAGNETIC POLES  
 POLAR RADIO BLACKOUT  
 POLAR REGIONS  
 AURORAS  
 1302 1308 2902  
 UP AURORAL ACTIVITY  
 AURORAL EMISSION  
 POLAR AURORAS  
 NT AURORAL ARCS  
 RADIO AURORAS  
 RED ARCS  
 BT #ATMOSPHERIC RADIATION

RT AERONOMY  
 AIRGLOW  
 AURORAL IONIZATION  
 AURORAL IRRADIATION  
 AURORAL TEMPERATURE  
 AURORAL ZONES  
 DAWN CHORUS  
 #EARTH ATMOSPHERE  
 ELECTRON PRECIPITATION  
 LIGHT EMISSION  
 MAGNETIC DISTURBANCES  
 NIGHT SKY  
 PROTON PRECIPITATION  
 SKY BRIGHTNESS  
 SOLAR ACTIVITY  
 X RAYS  
 AUSFORMING  
 1704 3404  
 BT #FORMING TECHNIQUES  
 HOT WORKING  
 #METAL WORKING  
 RT FORGING  
 ROLLING  
 AUSTENITE  
 1701 1704  
 RT ALLOTROPY  
 FERRITES  
 IRON ALLOYS  
 MARTENSITE  
 MICROSTRUCTURE  
 STEELS  
 AUSTENITIC STAINLESS STEELS  
 1701 1704  
 BT #ALLOYS  
 IRON ALLOYS  
 STAINLESS STEELS  
 STEELS  
 RT MARTENSITIC STAINLESS STEELS  
 AUSTIN CELL  
 0604  
 RT CELLS  
 AUSTRALIA  
 1305  
 BT #CONTINENTS  
 RT NATIONS  
 AUSTRALITES  
 1805 3005  
 BT #CELESTIAL BODIES  
 METEORITES  
 STONY METEORITES  
 TEKTITES  
 RT BEDIASITES  
 AUSTRIA  
 1305  
 RT EUROPE  
 NATIONS  
 AUTOCATALYSIS  
 0603  
 RT CATALYSIS  
 AUTOCLAVES  
 0504 1504  
 RT AUTOCLAVING  
 CHEMICAL REACTORS  
 CONTAINERS  
 PRESSURE VESSELS  
 AUTOCLAVING  
 0504 1504 3407  
 RT AUTOCLAVES  
 CURING  
 #HEATING  
 LEACHING  
 POWDER METALLURGY  
 AUTOCODERS  
 0801  
 BT ASSEMBLY LANGUAGE  
 #LANGUAGES  
 MACHINE ORIENTED LANGUAGES  
 RT COMPIERS  
 COMPUTER PROGRAMMING  
 COMPUTER SYSTEMS PROGRAMS  
 #LANGUAGES  
 AUTOCOLLIMATORS  
 USE COLLIMATORS  
 AUTOCORRELATION  
 1902 1905  
 BT CORRELATION  
 RT CROSS CORRELATION  
 DATA CORRELATION  
 FOURIER ANALYSIS  
 PERIODIC VARIATIONS  
 TIME SERIES ANALYSIS

## #AUTOMATIC CONTROL

AUTODYNES  
 0701 0902 0905 1001 1002  
 BT #CIRCUITS  
 #OSCILLATORS  
 RT DETECTORS  
 FREQUENCY CONTROL  
 HETERODYNING  
 SIGNAL ANALYZERS  
 SIGNAL DETECTION  
 SIGNAL DETECTORS  
 VACUUM TUBE OSCILLATORS  
 AUTOGIROS  
 0206  
 RT AVIAN 2/180 AUTOGIRO  
 BENSEN B-8M AUTOGIRO  
 WA-116 AUTOGIRO  
 BT ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 AUTOIONIZATION  
 0603 2401 2404  
 BT DISSOCIATION  
 #IONIZATION  
 RT ATOMIC COLLISIONS  
 AUTOKINESIS  
 0401 2306 2310  
 BT #PERCEPTION  
 PROPRIOCEPTION  
 SENSORY PERCEPTION  
 SPACE PERCEPTION  
 VISUAL PERCEPTION  
 AUTOMATA THEORY  
 1504 3404  
 RT ADAPTIVE CONTROL  
 ARTIFICIAL INTELLIGENCE  
 AUTOMATION  
 BIONICS  
 COMPUTERS  
 CYBERNETICS  
 DEPERSONALIZATION  
 HEURISTIC METHODS  
 INFORMATION THEORY  
 LEARNING MACHINES  
 ROBOTS  
 SELF ADAPTIVE CONTROL SYSTEMS  
 TURING MACHINES  
 #AUTOMATIC CONTROL  
 0203 0504 0702 1402 1504 2102 2402  
 UP SELF REGULATING  
 RT ADAPTIVE CONTROL  
 AUTOMATIC FLIGHT CONTROL  
 AUTOMATIC FREQUENCY CONTROL  
 AUTOMATIC GAIN CONTROL  
 AUTOMATIC LANDING CONTROL  
 CASCADE CONTROL  
 DYNAMIC CONTROL  
 FEEDBACK CONTROL  
 FEEDFORWARD CONTROL  
 LEARNING MACHINES  
 NUMERICAL CONTROL  
 OFF-ON CONTROL  
 OPTIMAL CONTROL  
 PROPORTIONAL CONTROL  
 SELF ADAPTIVE CONTROL SYSTEMS  
 SELF ALIGNMENT  
 SEQUENTIAL CONTROL  
 TIME OPTIMAL CONTROL  
 RT AIRCRAFT CONTROL  
 #ATTITUDE CONTROL  
 AUTOMATIC GIMBAL ANTENNA VECTOR  
 EQUIPMENT  
 AUTOMATIC TEST EQUIPMENT  
 AUTOMATION  
 COMBUSTION CONTROL  
 CONTROL  
 CONTROL EQUIPMENT  
 #CONTROLLERS  
 DEPERSONALIZATION  
 DIRECTIONAL CONTROL  
 #DYNAMIC CHARACTERISTICS  
 ELECTRIC CONTROL  
 ELECTRONIC CONTROL  
 ENGINE CONTROL  
 ENVIRONMENTAL CONTROL  
 #FLIGHT CONTROL  
 #GROUND BASED CONTROL  
 #GUIDANCE (MOTION)  
 HELICOPTER CONTROL  
 HYDRAULIC CONTROL  
 INSTRUMENTS  
 JET CONTROL  
 LANDING INSTRUMENTS  
 LATERAL CONTROL

# **AUTOMATIC CONTROL VALVES**

LONGITUDINAL CONTROL  
 MANUAL CONTROL  
 #MEASURING INSTRUMENTS  
 #MISSILE CONTROL  
 NEGATIVE FEEDBACK  
 PNEUMATIC CONTROL  
 RADIO CONTROL  
 REAL TIME OPERATION  
 #RECORDING INSTRUMENTS  
 REENTRY GUIDANCE  
 #REGULATORS  
 RELIEF VALVES  
 REMOTE CONTROL  
 ROCKET ENGINE CONTROL  
 SATELLITE ATTITUDE CONTROL  
 SATELLITE CONTROL  
 SATELLITE GUIDANCE  
 SELF ABSORPTION  
 SERVOCONTROL  
 SERVOMECHANISMS  
 SERVOMOTORS  
 #SPACECRAFT CONTROL  
 SPACECRAFT GUIDANCE  
 SPEED CONTROL  
 TEMPERATURE CONTROL  
 THERMOSTATS  
 THRUST VECTOR CONTROL  
 TRANSFER FUNCTIONS  
 TURBOJET ENGINE CONTROL

**AUTOMATIC CONTROL VALVES**  
 1201 1504  
 NT PRESSURE REGULATORS  
 RELIEF VALVES  
 BT #VALVES  
 RT ACTUATORS  
 DAMPERS (VALVES)  
 #DYNAMIC CHARACTERISTICS  
 FLUID AMPLIFIERS  
 FLUID SWITCHING ELEMENTS  
 GAS VALVES  
 HYDRAULIC EQUIPMENT  
 PNEUMATIC CONTROL  
 #REGULATORS  
 SERVOMECHANISMS  
 SOLENOID VALVES  
 TEMPERATURE CONTROL

**AUTOMATIC DATA PROCESSING**  
 USE #DATA PROCESSING

**AUTOMATIC FLIGHT CONTROL**  
 0203  
 UP APCS (CONTROL SYSTEM)  
 NT AUTOMATIC LANDING CONTROL  
 BT #AUTOMATIC CONTROL  
 #FLIGHT CONTROL  
 RT AIRCRAFT CONTROL  
 #AIRCRAFT INSTRUMENTS  
 AUTOMATIC PILOTS  
 CONTROL  
 DISTANCE MEASURING EQUIPMENT  
 MISSILE CONTROL  
 #NAVIGATION  
 #NAVIGATION AIDS  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 SOLAR COMPASSES  
 THRUST VECTOR CONTROL

**AUTOMATIC FREQUENCY CONTROL**  
 1406 1504  
 UP APC (CONTROL)  
 BT #AUTOMATIC CONTROL  
 FREQUENCY CONTROL  
 #REGULATORS  
 RT AUTOMATIC GAIN CONTROL  
 FEEDBACK CONTROL  
 FREQUENCY MODULATION  
 #OSCILLATORS  
 TUNING

**AUTOMATIC GAIN CONTROL**  
 0902 1504  
 UP AGC (CONTROL)  
 BT #AUTOMATIC CONTROL  
 RT AUTOMATIC FREQUENCY CONTROL  
 FEEDBACK CONTROL  
 TUNING

**AUTOMATIC GINBAL ANTENNA VECTOR EQUIPMENT**  
 0701 0901  
 RT #AUTOMATIC CONTROL  
 DIRECTIONAL ANTENNAS  
 POSITIONING

**AUTOMATIC LANDING CONTROL**  
 0203  
 BT #AUTOMATIC CONTROL

AUTOMATIC FLIGHT CONTROL  
 #FLIGHT CONTROL  
 INSTRUMENT LANDING SYSTEMS  
 #LANDING AIDS  
 BT AIRBORNE EQUIPMENT  
 AIRCRAFT EQUIPMENT  
 AUTOMATIC PILOTS  
 BLIND LANDING  
 DISTANCE MEASURING EQUIPMENT  
 AUTOMATIC LIGHT AIRCRAFT READINESS MONITOR  
 USE ALARM PROJECT  
 AUTOMATIC PATTERN RECOGNITION  
 USE PATTERN RECOGNITION  
 AUTOMATIC PICTURE TRANSMISSION  
 0702 0706  
 UP APT (PICTURE TRANSMISSION)  
 BT DATA TRANSMISSION  
 FACSIMILE COMMUNICATION  
 #SIGNAL TRANSMISSION  
 #TELECOMMUNICATION  
 #TRANSMISSION  
 RT TELEVISION TRANSMISSION  
 WAVE PROPAGATION

**AUTOMATIC PILOTS**  
 0203 2102  
 UP AUTOPILOTS  
 BT #AIRCRAFT INSTRUMENTS  
 #FLIGHT INSTRUMENTS  
 RT AIRCRAFT EQUIPMENT  
 AUTOMATIC FLIGHT CONTROL  
 AUTOMATIC LANDING CONTROL  
 #FLIGHT CONTROL  
 #GYROSCOPES  
 HONING  
 #LANDING AIDS  
 #NAVIGATION AIDS  
 PILOTS  
 RADIO ALTIMETERS  
 SOLAR COMPASSES

**AUTOMATIC ROCKET IMPACT PREDICTORS**  
 USE COMPUTERIZED SIMULATION  
 IMPACT PREDICTION

**AUTOMATIC TEST EQUIPMENT**  
 1106 1108 1406 1504 3404  
 RT #AUTOMATIC CONTROL  
 EQUIPMENT  
 #MEASURING INSTRUMENTS  
 TEST EQUIPMENT

**AUTOMATIC TYPEWRITERS**  
 0801 0802 0905  
 UP FLEXOWRITERS (TRADEMARK)  
 BT #TYPEWRITERS  
 RT CONSOLES  
 #DISPLAY DEVICES  
 PRINTERS (DATA PROCESSING)  
 PUNCHED TAPES

**AUTOMATION**  
 0506 1003 1504 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP INSTRUMENTAL ANALYSIS  
 RT AUTOMATA THEORY  
 #AUTOMATIC CONTROL  
 COMMAND AND CONTROL  
 COMPUTERS  
 #CONTROLLERS  
 CYBERNETICS  
 #DATA PROCESSING  
 DEPERSONALIZATION  
 FAIL-SAFE SYSTEMS  
 FEEDBACK CONTROL  
 FEEDFORWARD CONTROL  
 INFORMATION THEORY  
 MAN MACHINE SYSTEMS  
 MATERIALS HANDLING  
 MECHANIZATION  
 NUMERICAL CONTROL  
 REMOTE CONTROL  
 SELF ERECTING DEVICES  
 SELF REPAIRING DEVICES  
 SERVOMECHANISMS  
 SYSTEMS ENGINEERING  
 TOOLING

**AUTOMET MISSILE**  
 3101 3401  
 BT BALLISTIC MISSILES  
 #MISSILES  
 SHORT RANGE BALLISTIC MISSILES  
 SURFACE TO SURFACE MISSILES

**AUTOMOBILE ACCIDENTS**  
 0405 0408 3201

# **BASA THESAURUS (ALPHABETICAL LISTING)**

BT ACCIDENTS  
 RT ACCIDENT INVESTIGATION  
 ACCIDENT PREVENTION  
 SAFETY DEVICES

**AUTOMOBILE ENGINES**  
 1504 3301 3404  
 RT EXTERNAL COMBUSTION ENGINES  
 INTERNAL COMBUSTION ENGINES  
 PISTON ENGINES  
 TURBINE ENGINES  
 WANKEL ENGINES

**AUTOMOBILES**  
 1504 3404  
 UP JEEPS  
 RT ANTISKID DEVICES  
 CHASSIS  
 FUEL SYSTEMS  
 IGNITION SYSTEMS  
 LUBRICATION SYSTEMS  
 MILITARY VEHICLES  
 TRAILERS  
 TRUCKS  
 VEHICLES

**AUTOMORPHISMS**  
 1902  
 BT #ALGEBRA  
 GROUP THEORY  
 HOMOMORPHISMS

**AUTONOMIC NERVOUS SYSTEM**  
 0404 0408  
 NT SYMPATHETIC NERVOUS SYSTEM  
 BT #NERVOUS SYSTEM  
 RT INVOLUNTARY ACTIONS

**AUTONOMY**  
 3403 3406  
 RT ADAPTIVE CONTROL  
 COMMAND AND CONTROL  
 COMMANDS  
 DIRECTION  
 #EQUATIONS OF MOTION  
 #MANAGEMENT  
 SELF ADAPTIVE CONTROL SYSTEMS

**AUTOPILOTS**  
 USE AUTOMATIC PILOTS

**AUTOPSIES**  
 0404 0405  
 RT DISSECTION  
 PATHOLOGY

**AUTORADIOGRAPHY**  
 0411 0605 1407  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RADIOGRAPHY  
 RT BLACK AND WHITE PHOTOGRAPHY

**AUTOROTATION**  
 0101 0201  
 UP WINDMILLING  
 BT #GYRATION  
 ROTATION  
 RT ROTARY WING AIRCRAFT  
 ROTOCUTES

**AUTOTROPHS**  
 0402 0407 0409  
 NT HYDROGENOMONAS  
 BT #PLANTS (BOTANY)  
 RT HETEROTROPHS

**AUXILIARY ELECTRIC POWER UNITS**  
 USE #AUXILIARY POWER SOURCES

**AUXILIARY EQUIPMENT (COMPUTERS)**  
 0802  
 (EXCLUDES COMPUTER-CONTROLLED  
 EQUIPMENT)  
 NT PLOTTERS  
 PRINTERS (DATA PROCESSING)  
 BT #DATA PROCESSING EQUIPMENT  
 RT #DATA PROCESSING  
 EQUIPMENT  
 PRINTERS (DATA PROCESSING)

**#AUXILIARY POWER SOURCES**  
 0303 2802  
 UP AUXILIARY ELECTRIC POWER UNITS  
 NT ASTEC SOLAR TURBOELECTRIC GENERATOR  
 CHEMICAL AUXILIARY POWER UNITS  
 FISSION ELECTRIC CELLS  
 NUCLEAR AUXILIARY POWER UNITS  
 SNAP  
 SNAP 9A  
 SNAP 10A  
 SNAP 1  
 SNAP 2  
 SNAP 3  
 SNAP 4

# NASA THESAURUS (ALPHABETICAL LISTING)

SNAP 7  
 SNAP 8  
 SNAP 11  
 SNAP 13  
 SNAP 15  
 SNAP 17  
 SNAP 19  
 SNAP 21  
 SNAP 23  
 SNAP 27  
 SNAP 29  
 SNAP 50  
 SNAP 64  
 SNAP 80  
 SOLAR AUXILIARY POWER UNITS  
 SPACE POWER UNIT REACTORS  
 SUNFLOWER POWER SYSTEM  
 SUNFLOWER 1  
 RT DIRECT POWER GENERATORS  
 ELECTRIC BATTERIES  
 #ELECTRIC GENERATORS  
 ELECTRIC POWER  
 ENERGY SOURCES  
 GROUND SUPPORT EQUIPMENT  
 POWER SUPPLIES  
 SPACECRAFT POWER SUPPLIES  
 AUXILIARY PROPULSION  
 0303 2802  
 BT #PROPULSION  
 RT AERONAUTICAL ENGINEERING  
 ASTRONAUTICS  
 #ENGINES  
 HYDROGEN OXYGEN ENGINES  
 MARQUARDT R&D ENGINE  
 #MISSILES  
 #PROPELLANTS  
 PROPULSION SYSTEM CONFIGURATIONS  
 ROCKET PROPELLANTS  
 #SPACE FLIGHT  
 SPACE SHUTTLES  
 SPACECRAFT  
 #THRUST  
 AVAILABILITY  
 3408  
 RT ABUNDANCE  
 RESERVES  
 #RESOURCES  
 AVALANCHE DIODES  
 0902 0904 0905  
 UP ZENER DIODES  
 NT CRYOSAR  
 BT #DIODES  
 #ELECTRONIC EQUIPMENT  
 #RECTIFIERS  
 SEMICONDUCTOR DEVICES  
 SOLID STATE DEVICES  
 RT NEGATIVE CONDUCTANCE  
 VOLTAGE REGULATORS  
 AVALANCHES  
 1002 2401 2403  
 NT ELECTRON AVALANCHE  
 TOWNSEND AVALANCHE  
 RT EARTH MOVEMENTS  
 ELECTRIC DISCHARGES  
 ION PRODUCTION RATES  
 #IONIZING RADIATION  
 AVCS  
 USE ADVANCED VIDICON CAMERA SYSTEM  
 (AVCS)  
 AVERAGE  
 1905  
 NT MEAN  
 RT DISTRIBUTION MOMENTS  
 MEDIAN (STATISTICS)  
 MODE (STATISTICS)  
 NORMS  
 QUALITY CONTROL  
 AVIAN 2/180 AUTOGYRO  
 1403  
 BT AUTOGYROS  
 RESEARCH AIRCRAFT  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 AVIATION  
 USE AERONAUTICS  
 AVIATORS  
 USE AIRCRAFT PILOTS  
 AVIDIN  
 0403 1808  
 BT ALBUMINS  
 #PROTEINS  
 RT BIOTIN

AVIONICS  
 0201 1002 1402 3404  
 RT AERONAUTICS  
 AIRBORNE EQUIPMENT  
 AIRCRAFT COMMUNICATION  
 AIRCRAFT EQUIPMENT  
 #AIRCRAFT INSTRUMENTS  
 ASTRIONICS  
 ASTRONAUTICS  
 CONTROL  
 ELECTRONICS  
 #GUIDANCE (MOTION)  
 HEAD-UP DISPLAYS  
 TEST EQUIPMENT  
 AVOIDANCE  
 3407  
 NT COLLISION AVOIDANCE  
 AVRO 698 AIRCRAFT  
 USE VULCAN AIRCRAFT  
 AVRO 707 AIRCRAFT  
 0201 1106  
 BT HAWKER SIDDELEY AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 RESEARCH AIRCRAFT  
 TAILLESS AIRCRAFT  
 RT DELTA WINGS  
 VULCAN AIRCRAFT  
 AVRO WHITWORTH HS-748 AIRCRAFT  
 USE HS-748 AIRCRAFT  
 AW 650 AIRCRAFT  
 0204  
 UP GLOSTER AW-650 AIRCRAFT  
 WHITWORTH GLOSTER AW-650 AIRCRAFT  
 BT HAWKER SIDDELEY AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPROP AIRCRAFT  
 AXES (COORDINATES)  
 USE #COORDINATES  
 #AXES (REFERENCE LINES)  
 1902  
 NT AXES OF ROTATION  
 EARTH AXIS  
 RT #COORDINATES  
 AXES OF ROTATION  
 0101 0102 2308  
 NT EARTH AXIS  
 BT #AXES (REFERENCE LINES)  
 RT BODIES OF REVOLUTION  
 #ROTATING BODIES  
 ROTATION  
 SHAFTS (MACHINE ELEMENTS)  
 #SYMMETRICAL BODIES  
 AXIAL COMPRESSION LOADS  
 3203  
 BT AXIAL LOADS  
 COMPRESSION LOADS  
 #LOADS (FORCES)  
 RT AERODYNAMIC LOADS  
 COMPRESSION  
 DYNAMIC LOADS  
 SHOCK LOADS  
 STATIC LOADS  
 THRUST LOADS  
 AXIAL COMPRESSORS  
 USE TURBOCOMPRESSORS  
 AXIAL FLOW  
 0101 0104 1203  
 BT #FLUID FLOW  
 RT ANNULAR FLOW  
 AXISYMMETRIC FLOW  
 COAXIAL FLOW  
 COUNTERFLOW  
 DISCHARGE COEFFICIENT  
 FLOW GEOMETRY  
 ONE DIMENSIONAL FLOW  
 RADIAL FLOW  
 THREE DIMENSIONAL FLOW  
 TWO DIMENSIONAL FLOW  
 AXIAL FLOW COMPRESSORS  
 USE TURBOCOMPRESSORS  
 AXIAL FLOW PUMPS  
 0104 1501  
 NT TURBINE PUMPS  
 BT #PUMPS  
 RT CENTRIFUGAL PUMPS  
 FUEL PUMPS  
 AXIAL FLOW TURBINES  
 0104 1504

AZIDES (ORGANIC)  
 BT TURBINES  
 #THERMOMACHINERY  
 RT GAS TURBINE ENGINES  
 GAS TURBINES  
 STEAM TURBINES  
 AXIAL LOADS  
 3203 3204  
 NT AXIAL COMPRESSION LOADS  
 BT #LOADS (FORCES)  
 RT AERODYNAMIC LOADS  
 AXIAL STRESS  
 COMPRESSION LOADS  
 DYNAMIC LOADS  
 STATIC LOADS  
 THRUST LOADS  
 AXIAL STRAIN  
 3203 3204  
 UP AXISYMMETRIC DEFORMATION  
 UNIAxIAL STRAIN  
 BT #DEFORMATION  
 RT ELASTIC DEFORMATION  
 STRESS-STRAIN DIAGRAMS  
 STRUCTURAL STRAIN  
 AXIAL STRESS  
 3203 3204  
 BT #STRESSES  
 RT AXIAL LOADS  
 TENSILE STRESS  
 AXIONS  
 1902  
 UP POSTULATES  
 BT #MATHEMATICAL LOGIC  
 RT #KNOWLEDGE  
 LOGIC  
 MATHEMATICS  
 AXISYMMETRIC BODIES  
 0101 0102 3202  
 BT #SYMMETRICAL BODIES  
 RT BLUNT BODIES  
 BODIES  
 BODIES OF REVOLUTION  
 CONICAL BODIES  
 DUCTED BODIES  
 LENTICULAR BODIES  
 MISSILE BODIES  
 SLENDER BODIES  
 SLENDER CONES  
 STREAMLINED BODIES  
 AXISYMMETRIC DEFORMATION  
 USE AXIAL STRAIN  
 AXISYMMETRIC FLOW  
 0101 0102 1202 1203  
 NT ANNULAR FLOW  
 KARNAN-BODEWADT FLOW  
 BT #FLUID FLOW  
 RT AXIAL FLOW  
 COAXIAL FLOW  
 CONICAL FLOW  
 COUETTE FLOW  
 CROCCO METHOD  
 CYLINDRICAL WAVES  
 FLOW GEOMETRY  
 HELICAL FLOW  
 THREE DIMENSIONAL BOUNDARY LAYER  
 AXISYMMETRY  
 USE SYMMETRY  
 AXLES  
 USE SHAFTS (MACHINE ELEMENTS)  
 AXONS  
 0404 0408 0503  
 BT #CELLS (BIOLOGY)  
 #NERVOUS SYSTEM  
 AZEOTROPES  
 0603  
 RT BINARY MIXTURES  
 #MIXTURES  
 SOLUTIONS  
 AZIDES (INORGANIC)  
 0603 1804  
 NT HYDROGEN AZIDES  
 SODIUM AZIDES  
 BT #NITROGEN COMPOUNDS  
 RT AZIDES (ORGANIC)  
 AZIDES (ORGANIC)  
 0403 0603 1804 1808  
 NT SODIUM AZIDES  
 TRIAMINO GUANIDINIUM AZIDE  
 TRIAMINO GUANIDINIUM HYDRAZONIUM  
 AZIDE  
 BT #NITROGEN COMPOUNDS  
 RT AZIDES (INORGANIC)  
 EXPLOSIVES

# AZINUTH

## NASA THESAURUS (ALPHABETICAL LISTING)

### AZINUTH

1304 1901 2103 3001  
 UP LOOK ANGLES  
 SOLAR AZINUTH  
 RT ALTITUDE  
 ANGLES (GEOMETRY)  
 ASTRONOMICAL COORDINATES  
 BEARING (DIRECTION)  
 CELESTIAL REFERENCE SYSTEMS  
 DIRECTION  
 ELEVATION ANGLE  
 #NAVIGATION  
 ORIENTATION  
 POSITION (LOCATION)

### AZINES

0403 1808  
 NT CYANURATES  
 CYANURIC ACID  
 MECLIZINE  
 METHYLENE BLUE  
 PHENOTHIAZINES  
 BT #HETEROCYCLIC COMPOUNDS  
 #PYRAZINES

RT DYES

### AZO COMPOUNDS

0403 1808  
 NT RDX  
 BT #NITROGEN COMPOUNDS  
 RT DYES

### AZOLES

0403 1808  
 NT ACETAZOLAMIDE  
 CARBAZOLES  
 INDOLES  
 OXAZOLE  
 PYRROLES  
 TRYPTOPHAN  
 BT #HETEROCYCLIC COMPOUNDS

### AZOTOBACTER

0404 0407  
 BT BACTERIA  
 #MICROORGANISMS  
 #PLANTS (BOTANY)

### AZULENE

1808  
 BT #HETEROCYCLIC COMPOUNDS  
 TERPENES

### AZUR SATELLITE

3107  
 BT ESRO SATELLITES  
 EUROPEAN SPACE RESEARCH  
 ORGANIZATION SAT  
 #SATELLITES  
 SCIENTIFIC SATELLITES  
 RT EUROPEAN SPACE PROGRAMS  
 INTERNATIONAL COOPERATION  
 NASA PROGRAMS

### A2F AIRCRAFT

USE A-6 AIRCRAFT

### A3D AIRCRAFT

USE A-3 AIRCRAFT

### A3J AIRCRAFT

USE A-5 AIRCRAFT

### A4D AIRCRAFT

USE A-4 AIRCRAFT

# B

B-26 AIRCRAFT  
0207 3401  
UF INVADER AIRCRAFT  
BT BOMBER AIRCRAFT  
MARTIN AIRCRAFT  
B-47 AIRCRAFT  
0207 3401  
UF RB-47 AIRCRAFT  
STRATOJET AIRCRAFT  
IB-47 AIRCRAFT  
BT BOEING AIRCRAFT  
BOMBER AIRCRAFT  
JET AIRCRAFT  
B-50 AIRCRAFT  
0207  
BT BOEING AIRCRAFT  
BOMBER AIRCRAFT  
B-52 AIRCRAFT  
0207 3401  
UF STRATOPORTRESS AIRCRAFT  
BT BOEING AIRCRAFT  
BOMBER AIRCRAFT  
JET AIRCRAFT  
RT TURBOPAN ENGINES  
B-57 AIRCRAFT  
0207 3401  
UF CANBERRA BOMBER  
RB-57 AIRCRAFT  
BT BOMBER AIRCRAFT  
JET AIRCRAFT  
MARTIN AIRCRAFT  
RT CANBERRA AIRCRAFT  
B-58 AIRCRAFT  
0207 3401  
UF HUSTLER AIRCRAFT  
BT BOMBER AIRCRAFT  
GENERAL DYNAMICS AIRCRAFT  
JET AIRCRAFT  
TAILLESS AIRCRAFT  
B-66 AIRCRAFT  
0207 3401  
UF DESTROYER AIRCRAFT  
RB-66 AIRCRAFT  
BT BOMBER AIRCRAFT  
DOUGLAS AIRCRAFT  
JET AIRCRAFT  
B-70 AIRCRAFT  
0207 3401  
UF VALKYRIE AIRCRAFT  
XB-70 AIRCRAFT  
BT BOMBER AIRCRAFT  
JET AIRCRAFT  
NORTH AMERICAN AIRCRAFT  
RESEARCH AIRCRAFT  
B-103 AIRCRAFT  
USE BUCCANER AIRCRAFT  
B STARS  
3001  
BT CELESTIAL BODIES  
HOT STARS  
STARS  
BABBITT METAL  
USE BEARING ALLOYS  
BABOONS  
0402  
BT ANIMALS  
MAMMALS  
PRIMATES  
VERTEBRATES  
BABY PROJECT  
3409  
BT PROGRAMS  
PROJECTS  
BAC AIRCRAFT  
0201  
UF BRITISH AIRCRAFT CORP AIRCRAFT  
NT BAC 111 AIRCRAFT  
CANBERRA AIRCRAFT  
ENGLISH ELECTRIC AIRCRAFT  
H-126 AIRCRAFT  
JET PROVOST AIRCRAFT  
SCIMITAR AIRCRAFT  
TSR-2 AIRCRAFT  
VA-3 GROUND EFFECT MACHINE  
VALIANT AIRCRAFT  
VC-10 AIRCRAFT  
VISCOUNT AIRCRAFT  
RT AIRCRAFT  
BAC 111 AIRCRAFT  
0204

BT BAC AIRCRAFT  
JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TRANSPORT AIRCRAFT  
TURBOPAN AIRCRAFT  
BAC TSR 2 AIRCRAFT  
USE TSR-2 AIRCRAFT  
BACILLUS  
0404 0407  
BT BACTERIA  
MICROORGANISMS  
PLANTS (BOTANY)  
BACK INJURIES  
0405 0408  
BT INJURIES  
RT WHIPLASH INJURIES  
BACKFIRE  
0202 0203 2801 2808 3110 3301  
RT FLASHBACK  
BACKGROUND NOISE  
0704 1406 1409  
RT COSMIC NOISE  
ELASTIC WAVES  
ELECTROMAGNETIC NOISE  
IONOSPHERIC NOISE  
NOISE  
NOISE (SOUND)  
NOISE SPECTRA  
NOISE THRESHOLD  
RADIATION  
RANDOM NOISE  
RAYS  
SIGNAL TO NOISE RATIOS  
SQUELCH CIRCUITS  
BACKGROUND RADIATION  
1406 1409 2402 2901 2902 2903  
RT CONTINUOUS RADIATION  
CORPUSCULAR RADIATION  
COSMIC NOISE  
ELECTROMAGNETIC NOISE  
EXTRATERRESTRIAL RADIATION  
HIGH ALTITUDE TESTS  
IONOSPHERIC NOISE  
SKY RADIATION  
BACKINGS  
USE BACKUPS  
BACKLOBES  
0702 0705 0710 0901  
RT ANTENNA DESIGN  
ANTENNA RADIATION PATTERNS  
DIRECTIONAL ANTENNAS  
LOBES  
BACKSCATTERING  
0601 0710 2402 2403 2901 2902 2903  
(LIMITED TO IONIZING RADIATION  
SCATTERING)  
UF RADAR BACKSCATTER  
BT SCATTERING  
RT FORWARD SCATTERING  
NUCLEAR SCATTERING  
SCATTER PROPAGATION  
BACKUPS  
3202 3404  
UF BACKINGS  
RT WELDING  
BACKWARD WAVE TUBES  
0710 0905 1002  
BT MICROWAVE OSCILLATORS  
RT BEAM CURRENTS  
ELECTRON TRANSFER  
BACKWARD WAVES  
0710 1002  
BT ELASTIC WAVES  
ELECTROMAGNETIC RADIATION  
TRANSMISSION LINES  
TRAVELING WAVE TUBES  
TRAVELING WAVES  
BACKWASH  
0101 1202 2801 2808  
(EXCLUDES PROCESSES OF BACKWASHING)  
UF SIDEWASH  
BT BOUNDARY LAYER STABILITY  
DOWNWASH  
SLIPSTREAMS  
STROUHAL NUMBER  
TURBULENCE  
WAKES  
BACTERIA  
0407 0409  
NT ACTINOMYCETES  
AZOTOBACTER

BACILLUS  
CLOSTRIDIUM BOTULINUM  
ESCHERICHIA  
HYDROGENOMONAS  
KLEBSIELLA  
NITROBACTER  
PSEUDOMONAS  
SALMONELLA  
SARCINA  
SERRATIA  
STAPHYLOCOCCUS  
STEAROTHERMOPHILUS  
STREPTOCOCCUS  
STREPTOMYCETES  
BT MICROORGANISMS  
PLANTS (BOTANY)  
RT AEROBES  
ANAEROBES  
BACTERIOLOGY  
COLONIES  
INVERTEBRATES  
PATHOGENS  
SAPROPHYTES  
BACTERICIDES  
0405 0505  
UF GERMICIDES  
RT ANTIINFECTIVES AND ANTIBACTERIALS  
ANTISEPTICS  
CHEMICAL STERILIZATION  
FUMIGATION  
STERILIZATION  
BACTERIOLOGY  
0404  
BT BIOCHEMISTRY  
MICROBIOLOGY  
RT BACTERIA  
BIOLOGY  
CLOSTRIDIUM BOTULINUM  
ENDOTOXINS  
VACCINES  
BACTERIOPHAGES  
0404 0405 0407  
BT MICROORGANISMS  
VIRUSES  
RT INTERPERON  
BAPFLES  
1504  
RT ATTENUATORS  
BARRIERS  
BLAST DEFLECTORS  
CONICAL FLOW  
DAMPING  
DEFLECTORS  
DIFFUSERS  
DIVERTERS  
DIVIDERS  
DUCTS  
FLAME DEFLECTORS  
LIQUID SLOSHING  
LOUVERS  
MIXERS  
HUFFERS  
PANELS  
REFLECTORS  
SHIELDING  
SUPPRESSORS  
BAGGAGE  
0202 1103 1502  
BT CARGO  
RT AIR CARGO  
BAGS  
GROUND HANDLING  
BAGS  
0202 0205 0505 1502 1703 1805 3203  
NT GAS BAGS  
RT BAGGAGE  
CONTAINERS  
PACKAGES  
BAILOUT  
0208  
RT EJECTION  
EJECTION INJURIES  
EJECTION SEATS  
EJECTION TRAINING  
ESCAPE (ABANDONMENT)  
ESCAPE SYSTEMS  
JETTISON SYSTEMS  
JETTISONING  
PARACHUTE DESCENT  
BAINITE  
1701 1704  
RT BAINITIC STEEL

# BAINITIC STEEL

IRON ALLOYS  
MICROSTRUCTURE  
STEELS  
BAINITIC STEEL  
1701 1704  
BT #ALLOYS  
IRON ALLOYS  
STEELS  
RT BAINITE  
BAKELITE (TRADEMARK)  
1809 1810  
RT CERAMICS  
#RESINS  
THERMOSETTING RESINS  
BAKEOUT  
USE BAKING  
DEGASSING  
BAKER-HUNN CAMERA  
0709 1412  
BT CAMERAS  
#OPTICAL EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT  
RT ASTRONOMICAL PHOTOGRAPHY  
SCHMIDT CAMERAS  
BAKING  
1504 3404  
(EXCLUDES FOOD PROCESSING)  
UP BAKEOUT  
BT #HEATING  
RT CASTING  
DEGASSING  
DRYING  
#HEAT TREATMENT  
OVENS  
ROASTING  
STERILIZATION  
BALANCE  
0101 2311 3303 3406  
RT AERODYNAMIC BALANCE  
COMPENSATORS  
EQUILIBRIUM  
HEAT BALANCE  
MASS BALANCE  
MASS DISTRIBUTION  
MATERIAL BALANCE  
WEIGHT INDICATORS  
BALANCE EQUATIONS  
USE EQUATIONS  
BALANCED AMPLIFIERS  
USE PUSH-PULL AMPLIFIERS  
BALANCING  
1501 1504  
RT ECCENTRICITY  
EQUILIBRIUM  
FLYWHEELS  
MAN MACHINE SYSTEMS  
STABILIZATION  
BALL BEARINGS  
1501  
BT ANTIFRICTION BEARINGS  
#BEARINGS  
RT BALLS  
ELASTOHYDRODYNAMICS  
NEEDLE BEARINGS  
ROLLER BEARINGS  
THRUST BEARINGS  
BALLAST  
0102 0202 0205 0903 0904 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BALLAST (MASS)  
BALLASTS (IMPEDANCES)  
BALLAST (MASS)  
3203  
RT AERODYNAMIC STABILITY  
BALLAST  
BUOYANCY  
COUNTERBALANCES  
FLOATING  
FLOATS  
HYDRODYNAMICS  
#LOADS (FORCES)  
MASS DISTRIBUTION  
#STABILITY  
STATIC LOADS  
BALLASTS (IMPEDANCES)  
0902 1001  
RT BALLAST  
CAPACITORS  
INDUCTORS  
LUMINAIRES

RESISTORS  
TRANSFORMERS  
BALLISTIC CAMERAS  
0709 1102 1412  
BT CAMERAS  
#OPTICAL EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT  
RT BALLISTIC RANGES  
GROUND SUPPORT EQUIPMENT  
HIGH SPEED CAMERAS  
OPTICAL TRACKING  
RANGEFINDING  
STROBOSCOPES  
TRAJECTORY MEASUREMENT  
BALLISTIC MISSILE DECOYS  
3101 3105 3401  
BT #COUNTERMEASURES  
DECOYS  
RT MISSILE DEFENSE  
MISSILE TRACKING  
REENTRY DECOYS  
BALLISTIC MISSILE EARLY WARNING SYSTEM  
0702 0709 3401  
UP BNEWS  
BT EARLY WARNING SYSTEMS  
#WARNING SYSTEMS  
RT AIR DEFENSE  
MILITARY TECHNOLOGY  
RADAR TRACKING  
BALLISTIC MISSILE SUBMARINES  
1104 3401  
BT SHIPS  
SUBMARINES  
UNDERWATER VEHICLES  
#WATER VEHICLES  
RT BALLISTIC MISSILES  
FLEET BALLISTIC MISSILES  
MISSILE LAUNCHERS  
MOBILE MISSILE LAUNCHERS  
POSEIDON MISSILES  
SEA LAUNCHING  
BALLISTIC MISSILES  
3101 3401  
(GUIDED ONLY DURING INITIAL POWERED  
PHASE)  
NT ATLAS D ICBM  
ATLAS E ICBM  
ATLAS F ICBM  
ATLAS G ICBM  
ATLAS ICBM  
AUTOMET MISSILE  
BLUE STREAK MISSILE  
FIELD ARMY BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC  
MISSILES  
JUPITER MISSILE  
MINUTEMAN ICBM  
PERSHING MISSILE  
POLARIS A1 MISSILE  
POLARIS A2 MISSILE  
POLARIS A2A MISSILE  
POLARIS A3 MISSILE  
POLARIS MISSILES  
POSEIDON MISSILES  
SHORT RANGE BALLISTIC MISSILES  
SKYBOLT MISSILE  
SUBROC MISSILE  
TITAN ICBM  
TITAN 1 ICBM  
TITAN 2 ICBM  
V-2 MISSILE  
BT #MISSILES  
RT ANTIMISSILE MISSILES  
BALLISTIC MISSILE SUBMARINES  
BALLISTIC VEHICLES  
SAFEGUARD SYSTEM  
SURFACE TO SURFACE MISSILES  
BALLISTIC RANGES  
1108  
BT #RANGES (FACILITIES)  
#TEST FACILITIES  
TEST RANGES  
RT BALLISTIC CAMERAS  
DOWNRANGE  
HYDROBALLISTICS  
MISSILE RANGES  
BALLISTIC TRAJECTORIES  
0101 1904 2308 3006  
BT #TRAJECTORIES  
ASCENT TRAJECTORIES  
BALLISTICS

# NASA THESAURUS (ALPHABETICAL LISTING)

COASTING FLIGHT  
DESCENT TRAJECTORIES  
DOWNRANGE  
FREE FALL  
IMPACT PREDICTION  
MIDCOURSE TRAJECTORIES  
MISSILE TRAJECTORIES  
PARABOLIC FLIGHT  
BALLISTIC VEHICLES  
0101 3110 3401  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP NONLIFTING VEHICLES  
RT BALLISTIC MISSILES  
#REENTRY VEHICLES  
#ROCKET VEHICLES  
TEST VEHICLES  
#WEAPONS  
BALLISTICS  
1904 3302 3401  
NT HYDROBALLISTICS  
INTERIOR BALLISTICS  
TERMINAL BALLISTICS  
RT AERODYNAMIC DRAG  
BALLISTIC TRAJECTORIES  
GAS GUNS  
HOWITZERS  
HYPERVELOCITY GUNS  
ORDNANCE  
PROJECTILES  
#PROPELLANTS  
#TRAJECTORIES  
TRAJECTORY ANALYSIS  
TRAJECTORY MEASUREMENT  
BALLISTOCARDIOGRAPHY  
0405 0501  
BT #BIOENGINEERING  
BIOMETRICS  
CARDIOGRAPHY  
RT ELECTROCARDIOGRAPHY  
ELECTROENCEPHALOGRAPHY  
PHONOCARDIOGRAPHY  
SEISMOCARDIOGRAPHY  
BALLOON FLIGHT  
0205  
RT BALLOON SOUNDING  
FLIGHT  
METEOROLOGICAL FLIGHT  
VERTICAL FLIGHT  
BALLOON SOUNDING  
0205 2003  
BT SOUNDING  
RT BALLOON FLIGHT  
RADIOSONDES  
BALLOONS  
0205 3202  
NT HIGH ALTITUDE BALLOONS  
METEOROLOGICAL BALLOONS  
ROBIN BALLOONS  
SKYHOOK BALLOONS  
TETHERED BALLOONS  
BT #EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
RT AIRCRAFT  
AIRSHIPS  
ASCENT  
BALLUTES  
FOLDING STRUCTURES  
GAS BAGS  
GONDOLAS  
OBSERVATION AIRCRAFT  
PARAVULCOONS  
#PILOTLESS AIRCRAFT  
STRATOSCOPE TELESCOPES  
BALLS  
1504 1703 1805 3203  
RT BALL BEARINGS  
FALLING SPHERES  
#JOINTS (JUNCTIONS)  
SPHERES  
#VALVES  
BALLUTES  
0205 0208 3108  
BT AERODYNAMIC BRAKES  
#BRAKES (FOR ARRESTING MOTION)  
#DRAG DEVICES  
#EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
RT AIRCRAFT BRAKES  
BALLOONS  
DRAG CHUTES

# NASA THESAURUS (ALPHABETICAL LISTING)

FOLDING STRUCTURES  
 PARACHUTES  
 BALMER SERIES  
 1411 2401  
 BT ELECTROMAGNETIC SPECTRA  
 LINE SPECTRA  
 RADIATION SPECTRA  
 #SPECTRA  
 RT ABSORPTION SPECTRA  
 ATOMIC SPECTRA  
 ELECTRON TRANSITIONS  
 EMISSION SPECTRA  
 H BETA LINE  
 H GAMMA LINE  
 H LINES  
 HYDROGEN  
 Balsa  
 0409 1808  
 RT TREES (PLANTS)  
 WOOD  
 BALTIC SEA  
 1305  
 BT SEAS  
 BANACH SPACE  
 1902 1903  
 BT #ALGEBRA  
 #ANALYSIS (MATHEMATICS)  
 FUNCTION SPACE  
 FUNCTIONAL ANALYSIS  
 HILBERT SPACE  
 VECTOR SPACES  
 RT HARMONIC ANALYSIS  
 METRIC SPACE  
 BAND STRUCTURE OF SOLIDS  
 2404 2601 2603  
 RT BRILLOUIN ZONES  
 CONDUCTION BANDS  
 ELECTRON TRANSITIONS  
 FORBIDDEN BANDS  
 BANDPASS FILTERS  
 0710 1002 1413  
 UP PASSBANDS  
 BT #ELECTRIC FILTERS  
 RT ADAPTIVE FILTERS  
 BANDWIDTH  
 #ELECTRIC FILTERS  
 ELECTROMAGNETIC WAVE FILTERS  
 FILTERS  
 MICROWAVE FILTERS  
 OPTICAL FILTERS  
 ULTRAVIOLET FILTERS  
 VOCODERS  
 BANDS  
 0702 1507 2311 2402 2603 3202 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ANCHORS (FASTENERS)  
 CLAMPS  
 CLIPS  
 CONDUCTION BANDS  
 EDGE DISLOCATIONS  
 ENERGY BANDS  
 #FASTENERS  
 #FREQUENCIES  
 HOLDERS  
 PHOTOLUMINESCENT BANDS  
 PLASTIC DEFORMATION  
 RING STRUCTURES  
 SPECTRAL BANDS  
 STRAPS  
 BANDWIDTH  
 0702 0705 0710 0905 1001 1002 2311  
 UP PASSBANDS  
 RT BROADBAND  
 SPECTRAL LINE WIDTH  
 BANDPASS FILTERS  
 BROADBAND AMPLIFIERS  
 CHANNEL CAPACITY  
 #DYNAMIC CHARACTERISTICS  
 #FREQUENCIES  
 FREQUENCY RANGES  
 #IMPEDANCE  
 RESONANT FREQUENCIES  
 TRACKING FILTERS  
 TRANSFER FUNCTIONS  
 WIDTH  
 WINDOWS (INTERVALS)  
 BANG-BANG CONTROL  
 USE OFF-ON CONTROL  
 BANKING FLIGHT  
 USE TURNING FLIGHT

BARANY CHAIR  
 0408 0502  
 BT SEATS  
 RT ROTATING ENVIRONMENTS  
 TOLERANCES (PHYSIOLOGY)  
 VERTIGO  
 BARDEEN APPROXIMATION  
 USE BARRIER LAYERS  
 #ELECTRICAL PROPERTIES  
 #SURFACE PROPERTIES  
 BARDEEN-COOPER-SCHRIEFFER THEORY  
 USE BCS THEORY  
 BARITE  
 1805 1806  
 BT #MINERALS  
 SULFATES  
 #SULFUR COMPOUNDS  
 BARIUM  
 0603 1703  
 NT BARIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 BARIUM ALLOYS  
 1701 1704  
 BT #ALLOYS  
 BARIUM COMPOUNDS  
 0603 1804  
 NT BARIUM FERRATES  
 BARIUM FLUORIDES  
 BARIUM OXIDES  
 BARIUM STEARATES  
 BARIUM SULFIDES  
 BARIUM TITANATES  
 BARIUM ZIRCONATES  
 RT ALKALINE EARTH COMPOUNDS  
 METAL COMPOUNDS  
 BARIUM FERRATES  
 0603 1804  
 BT BARIUM COMPOUNDS  
 FERRATES  
 #IRON COMPOUNDS  
 BARIUM FLUORIDES  
 0603 1804  
 BT BARIUM COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 BARIUM ISOTOPES  
 0603 1703 2406  
 BT ALKALI METALS  
 BARIUM  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 BARIUM OXIDES  
 0603 1804  
 BT ALKALINE EARTH OXIDES  
 BARIUM COMPOUNDS  
 #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 BARIUM STEARATES  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 BARIUM COMPOUNDS  
 #ESTERS  
 STEARATES  
 BARIUM SULFIDES  
 0603 1804  
 BT BARIUM COMPOUNDS  
 #CHALCOGENIDES  
 INORGANIC SULFIDES  
 SULFIDES  
 #SULFUR COMPOUNDS  
 BARIUM TITANATES  
 0603 1804  
 BT BARIUM COMPOUNDS  
 TITANATES  
 #TITANIUM COMPOUNDS  
 RT DIELECTRICS  
 BARIUM ZIRCONATES  
 0603 1804  
 BT BARIUM COMPOUNDS  
 ZIRCONATES  
 #ZIRCONIUM COMPOUNDS  
 BARHAUSEN EFFECT  
 2305 2307  
 RT ELECTROMAGNETIC MEASUREMENT  
 ELECTROMAGNETISM  
 OSCILLOGRAPHS

# BARRIER LAYERS

BAROCLINIC WAVES  
 1202 1301 2003  
 BT CAPILLARY WAVES  
 #ELASTIC WAVES  
 GRAVITY WAVES  
 #SURFACE WAVES  
 RT BAROCLINITY  
 BAROTROPIC FLOW  
 CYCLONES  
 DENSITY DISTRIBUTION  
 GEOSTROPHIC WIND  
 RADIATION PRESSURE  
 STRATIFIED FLOW  
 WAVES  
 BAROCLINITY  
 1202 1301 2003  
 RT BAROCLINIC WAVES  
 BAROTROPIC FLOW  
 BAROTROPISM  
 ISOBARS  
 METEOROLOGICAL SOLENOIDS  
 STRATIFIED FLOW  
 BAROMETERS  
 1408 2002 2003  
 BT #MEASURING INSTRUMENTS  
 METEOROLOGICAL INSTRUMENTS  
 PRESSURE GAGES  
 RT ALTIMETERS  
 HIPSOMETERS  
 MANOMETERS  
 PRESSURE MEASUREMENTS  
 VACUUM GAGES  
 BAROMETRIC PRESSURE  
 USE ATMOSPHERIC PRESSURE  
 BARORECEPTORS  
 1408  
 BT #ANATOMY  
 SENSE ORGANS  
 RT #PRESSURE  
 PROPRIOCEPTORS  
 BAROTRAUMA  
 0401 0405 0408 0504  
 BT #INJURIES  
 RT DECOMPRESSION SICKNESS  
 DIVING (UNDERWATER)  
 BAROTROPIC FLOW  
 1202 1301 2003  
 BT #FLUID FLOW  
 RT AIR CURRENTS  
 AIR FLOW  
 BAROCLINIC WAVES  
 BAROCLINITY  
 BAROTROPISM  
 FLOW CHARACTERISTICS  
 LEE WAVES  
 RAYLEIGH WAVES  
 ROSSBY REGIMES  
 VISCOUS FLOW  
 #WIND (METEOROLOGY)  
 WIND SHEAR  
 BAROTROPISM  
 1202 1301 2003  
 RT BAROCLINITY  
 BAROTROPIC FLOW  
 ISOBARS  
 BARRAGES  
 1103 1204 3401  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ARTILLERY FIRE  
 DAMS  
 BARRELS  
 0202 0505 1103 1104 1502 1703 1805  
 3202 3401  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BARRELS (CONTAINERS)  
 GUN LAUNCHERS  
 BARRELS (CONTAINERS)  
 1103 1502  
 UP CASKS  
 RT BARRELS  
 CONTAINERS  
 DRUMS (CONTAINERS)  
 BARRICADES  
 USE BARRIERS  
 BARRIER LAYERS  
 0906 2602  
 UP BARDEEN APPROXIMATION  
 RT BARRIERS



## BARRIERS

INTERLAYERS  
 #JOINTS (JUNCTIONS)  
 JUNCTION DIODES  
 JUNCTION TRANSISTORS  
 LAYERS  
 MONOHMIC EFFECT  
 SEALS (STOPPERS)  
 SEMICONDUCTOR DEVICES  
 SURFACE LAYERS  
 WATERPROOFING  
 ZENER EFFECT

BARRIERS  
 0101 0702 1101 1202 1504 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

UF BARRICADES  
 OBSTACLES  
 RT ABORT APPARATUS  
 ACOUSTIC VELOCITY  
 ARRESTING GEAR  
 BAPFLES  
 BARRIER LAYERS  
 BULKHEADS  
 CHAINS  
 CLOSURES  
 CONSTRUCTIONS  
 CURTAINS  
 DAMS  
 DIVIDERS  
 ELECTRODE FILM BARRIERS  
 ENCLOSURES  
 GATES (OPENINGS)  
 GUARDS (SHIELDS)  
 SAFETY DEVICES  
 SEALS (STOPPERS)  
 #SHIELDING  
 WALLS  
 #WIND (METEOROLOGY)  
 WINDOWS (APERTURES)

BARS  
 1406 1408  
 NT ELASTIC BARS  
 PRISMATIC BARS  
 RT METAL PLATES  
 RODS  
 #STRUCTURAL MEMBERS

BARYCENTER  
 USE CENTER OF GRAVITY

BARYON RESONANCES  
 2403 2405  
 BT ELEMENTARY PARTICLES  
 FERMIONS  
 #PARTICLES  
 #RESONANCE  
 RT HYPERONS

BARYONS  
 2401 2403 2405  
 RT NUCLEONS

BASALT  
 1306  
 BT IGNEOUS ROCKS  
 ROCKS  
 RT VOLCANOLOGY

BASE FLOW  
 0101 0201 1202 2311  
 (FLUID FLOW AT THE BASE OR EXTREME APT  
 END OF A BODY)  
 BT #FLUID FLOW  
 RT HEAD FLOW  
 #WAKES

BASE HEATING  
 0101 0201 0303 3110 3303 3305  
 BT #HEATING  
 RT AFTERBODIES  
 CONVECTION  
 EXHAUST NOZZLES  
 JET EXHAUST  
 JET IMPINGEMENT  
 RADIATION  
 ROCKET EXHAUST

BASE PRESSURE  
 0101  
 BT #PRESSURE  
 RT AERODYNAMIC DRAG

BASEMENTS  
 1101 1103 3404  
 RT BUILDINGS  
 FLOORS  
 FOUNDATIONS

BASES  
 0603 1101 1105 1106 1804 1808 1902

3202 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT BASES (CHEMICAL)  
 FOUNDATIONS  
 #INORGANIC COMPOUNDS  
 ION CONCENTRATION  
 LUNAR BASES  
 SPACE BASES  
 #STATIONS

BASES (CHEMICAL)  
 0603 1804 1808  
 RT ALKALIES  
 ANHYDRIDES  
 BASES  
 BASES (FOUNDATIONS)  
 USE FOUNDATIONS  
 BASINS (CONTAINERS)  
 1305 1103 1306  
 RT PONDS  
 RESERVOIRS  
 #TANKS (CONTAINERS)

BASKETS  
 0202 0205 1502 3203  
 RT CONTAINERS  
 GONDOLAS

BASTNASITE  
 1805 1806  
 BT #CARBON COMPOUNDS  
 CARBONATES  
 CERIUM COMPOUNDS  
 #MINERALS  
 #RARE EARTH COMPOUNDS

BATCH PROCESSING  
 0802  
 BT #DATA PROCESSING  
 RT COMPUTER PROGRAMMING  
 #COMPUTER PROGRAMS  
 #DATA PROCESSING EQUIPMENT  
 PROCESSING

BATHING  
 0405 0505 1504 1704 3303 3304  
 RT #COOLING  
 HYGIENE  
 WASHING

BATHS  
 0405 0505 1504 1704 3303 3404  
 (EXCLUDES BATHING)  
 NT SALT BATHS  
 RT DIPPING  
 ELECTROPLATING  
 HEAT TRANSFER  
 QUENCHING (COOLING)  
 SOAKING  
 SUBMERGING

BATHYMETERS  
 1310 1406  
 UF BATHYMETRY  
 BT #MEASURING INSTRUMENTS  
 RT DEPTH MEASUREMENT  
 OCEANOGRAPHY  
 SOUNDING

BATHYMETRY  
 USE BATHYMETERS

BATHYTHERMOGRAPHS  
 1408 3303 3304  
 BT #MEASURING INSTRUMENTS  
 #RECORDING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 RT PRESSURE GRADIENTS  
 TEMPERATURE GRADIENTS

BATS  
 0402  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES

BATTERIES  
 USE ELECTRIC BATTERIES

BATTERY CHARGERS  
 0302  
 RT CHARGING  
 ELECTRIC BATTERIES  
 STORAGE BATTERIES

BATTERY SEPARATORS  
 USE #SEPARATORS

BAUSCHINGER EFFECT  
 1704 2601  
 RT EFFECTS  
 FATIGUE (MATERIALS)  
 MICROSTRUCTURE

## NASA THESAURUS (ALPHABETICAL LISTING)

BAUXITE  
 0603 1806  
 RT ALUMINUM OXIDES  
 #MINERALS  
 ROCKS

BAYARD-ALPERT IONIZATION GAGES  
 0602 1406 1501  
 BT IONIZATION GAGES  
 #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 #VACUUM APPARATUS  
 VACUUM GAGES  
 RT HOT CATHODES

BAYES THEOREM  
 1505 1902 1903 1905  
 UF BAYESIAN STATISTICS  
 RT #THEOREMS  
 RT QUALITY CONTROL  
 SAMPLING

BAYESIAN STATISTICS  
 USE BAYES THEOREM

BAYS  
 0202 3110 3202  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT BAYS (STRUCTURAL UNITS)  
 BAYS (TOPOGRAPHIC FEATURES)

BAYS (STRUCTURAL UNITS)  
 0202 3202  
 RT AIRCRAFT COMPARTMENTS  
 AIRFRAMES  
 BAYS  
 #COMPARTMENTS  
 FUSELAGES  
 HULLS (STRUCTURES)  
 #SHELLS (STRUCTURAL FORMS)

BAYS (TOPOGRAPHIC FEATURES)  
 1303 1304 1306  
 UF COVES  
 RT BAYS  
 GULFS

BBGKY HIERARCHY  
 2502 3006  
 BT HIERARCHIES  
 RT BOGOLIUBOV THEORY  
 BOLTZMANN TRANSPORT EQUATION  
 EQUATIONS OF STATE  
 FOURIER TRANSFORMATION  
 KINETIC EQUATIONS  
 PLASMA PHYSICS

BCC LATTICES  
 USE BODY CENTERED CUBIC LATTICES

BCR CODES  
 0503 0702 0703 0802 1902  
 UF BOSE-CHAUDHURI-HOCCQUENGHEM CODES  
 BT ERROR DETECTING CODES  
 RT BINARY CODES  
 CODES  
 CODING  
 COMPUTER PROGRAMMING  
 DECODERS  
 DECODING  
 DIGITAL TECHNIQUES  
 ERROR CORRECTING DEVICES  
 INFORMATION THEORY  
 PARITY  
 RANDOM ERRORS

BCS THEORY  
 2302 2604  
 UF BARDEEN-COOPER-SCHRIEFFER THEORY  
 RT MANY BODY PROBLEM  
 SUPERCONDUCTIVITY  
 THERMODYNAMIC COUPLING

BE A  
 USE BEACON EXPLORER A

BE B  
 USE EXPLORER 22 SATELLITE

BE C  
 USE EXPLORER 27 SATELLITE

BE-3 ENGINE  
 2808 3106  
 BT #ENGINES  
 RETROCKET ENGINES  
 ROCKET ENGINES  
 RT ATHENA ROCKET VEHICLE  
 RANGER LUNAR LANDING VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES

BEACHES  
 1303 1304 1310 1306  
 RT COASTS  
 LAKES

# NASA THESAURUS (ALPHABETICAL LISTING)

**TOPOGRAPHY**  
**BEACON EXPLORER A**  
1302 3107  
**UF** BE A  
S-66 SATELLITE  
**BT** ARTIFICIAL SATELLITES  
BEACON SATELLITES  
EARTH SATELLITES  
#EXPANDABLE STRUCTURES  
INFLATABLE SPACECRAFT  
INFLATABLE STRUCTURES  
PASSIVE SATELLITES  
#SATELLITES  
#SPACE ERECTABLE STRUCTURES  
#UNMANNED SPACECRAFT  
**RT** DELTA LAUNCH VEHICLE  
**BEACON EXPLORER B**  
**USE** EXPLORER 22 SATELLITE  
**BEACON EXPLORER C**  
**USE** EXPLORER 27 SATELLITE  
**BEACON SATELLITES**  
1302 3107  
**UF** POLAR IONOSPHERE BEACON  
**NT** BEACON EXPLORER A  
EXPLORER 22 SATELLITE  
**BT** ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#EXPANDABLE STRUCTURES  
INFLATABLE SPACECRAFT  
INFLATABLE STRUCTURES  
PASSIVE SATELLITES  
#SATELLITES  
#SPACE ERECTABLE STRUCTURES  
#UNMANNED SPACECRAFT  
**RT** LOCATES SYSTEM  
**BEACONS**  
0705 1102 2103  
**NT** AIRPORT BEACONS  
OMNIDIRECTIONAL RADIO RANGES  
RADAR BEACONS  
RADIO BEACONS  
RADIO DIRECTION FINDERS  
SELF CALIBRATING OMNIRANGE  
**BT** #NAVIGATION AIDS  
**RT** AIRCRAFT LIGHTS  
BUOYS  
COMPASSES  
HOMING  
HOMING DEVICES  
INSTRUMENT FLIGHT RULES  
MARKERS  
POSITION INDICATORS  
PROJECTORS  
RADIO DIRECTION FINDERS  
SEARCHLIGHTS  
SIGNALS  
VISUAL SIGNALS  
**BEADS**  
3004  
**RT** WELDED JOINTS  
**BEAGLE AIRCRAFT**  
0201  
**NT** M-218 AIRCRAFT  
WA-116 AUTOGIRO  
**RT** AIRCRAFT  
**BEAGLE MILES M-218 AIRCRAFT**  
**USE** M-218 AIRCRAFT  
**BEAGLE PROJECT**  
0201  
**BT** #PROGRAMS  
PROJECTS  
**RT** VOYAGER PROJECT  
**BEAGLE-WALLIS WA-116 AUTOGIRO**  
**USE** WA-116 AUTOGIRO  
**BEAM COLUMNS**  
**USE** BEAMS (SUPPORTS)  
COLUMNS (SUPPORTS)  
**BEAM CURRENTS**  
2304 2403  
**BT** #ELECTRIC CURRENT  
**RT** BACKWARD WAVE TUBES  
BEAM SWITCHING  
BRILLOUIN FLOW  
CURRENTS  
**BEAM PLASMA AMPLIFIERS**  
0905 2501  
**BT** #AMPLIFIERS  
**RT** ELECTRON BEAMS  
MILLIMETER WAVES  
PLASMA-PARTICLE INTERACTIONS.  
#PLASMAS (PHYSICS)

**BEAM SPLITTERS**  
2402  
**RT** #BEAMS (RADIATION)  
#PARTICLE ACCELERATORS  
PARTICLE BEAMS  
**BEAM SWITCHING**  
0702 0904 0905 1201 2402 2405  
**BT** SWITCHING  
**RT** BEAM CURRENTS  
BEAM WAVEGUIDES  
#BEAMS (RADIATION)  
ELECTRON OPTICS  
ION ENGINES  
LASERS  
MAGNETIC SWITCHING  
**BEAM WAVEGUIDES**  
0710 2402  
**BT** COMMUNICATION CABLES  
#TRANSMISSION LINES  
WAVEGUIDES  
**RT** BEAM SWITCHING  
COLLIMATORS  
PHOTON BEAMS  
PLASMA GUIDES  
RECTANGULAR GUIDES  
WAVE PROPAGATION  
YOKES  
**BEAMS**  
0710 1601 2102 2306 2403 2502 3202  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
**RT** #BEAMS (RADIATION)  
BEAMS (SUPPORTS)  
**#BEAMS (RADIATION)**  
2401 2403 2405  
**NT** ATOMIC BEAMS  
ELECTRON BEAMS  
GAMMA RAY BEAMS  
ION BEAMS  
LIGHT BEAMS  
MICROBEAMS  
MOLECULAR BEAMS  
NEUTRAL BEAMS  
NEUTRON BEAMS  
PARTICLE BEAMS  
PHONON BEAMS  
PHOTON BEAMS  
PION BEAMS  
PROTON BEAMS  
RADAR BEAMS  
**RT** BEAM SPLITTERS  
BEAM SWITCHING  
BEAMS  
COHERENT ELECTROMAGNETIC RADIATION  
#COHERENT RADIATION  
CORPUSCULAR RADIATION  
#ELECTROMAGNETIC RADIATION  
INFRARED RADIATION  
#IONIZING RADIATION  
#IRRADIATION  
LIGHT (VISIBLE RADIATION)  
LONGITUDINAL WAVES  
MONOCHROMATIC RADIATION  
PLANE WAVES  
RADIATION  
RAYS  
SUBMILLIMETER WAVES  
ULTRAVIOLET RADIATION  
**BEAMS (SUPPORTS)**  
3202 3203  
**UF** BEAM COLUMNS  
STRUCTURAL BEAMS  
BOX BEAMS  
CANTILEVER BEAMS  
CURVED BEAMS  
I BEAMS  
RECTANGULAR BEAMS  
**BT** #STRUCTURAL MEMBERS  
**RT** BEAMS  
COLUMNS (SUPPORTS)  
GIRDERS  
HEADERS  
T SHAPE  
TRUSSES  
**BEAMSHAPING**  
**USE** COLLIMATION  
**BEARING**  
1501 1504 2103  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

# BEDS (PROCESS ENGINEERING)

**RT** BEARING (DIRECTION)  
#BEARINGS  
INTERNAL COMBUSTION ENGINES  
**BEARING (DIRECTION)**  
2102 2103  
**RT** ALIGNMENT  
AZIMUTH  
BEARING  
DIRECTION  
EXPOSURE  
INSTRUMENT ORIENTATION  
ORIENTATION  
POSITION (LOCATION)  
SOUND LOCALIZATION  
SPACE ORIENTATION  
**BEARING ALLOYS**  
1701 1704  
**UF** BABBITT METAL  
**BT** #ALLOYS  
**RT** ALUMINUM ALLOYS  
#BEARINGS  
CADMIUM ALLOYS  
COPPER ALLOYS  
IRON ALLOYS  
LEAD ALLOYS  
METAL POWDER  
SILVER ALLOYS  
TIN ALLOYS  
ZINC ALLOYS  
**#BEARINGS**  
1501 1504  
**NT** ANTIFRICTION BEARINGS  
BALL BEARINGS  
FOIL BEARINGS  
GAS BEARINGS  
JOURNAL BEARINGS  
LIQUID BEARINGS  
NEEDLE BEARINGS  
ROLLER BEARINGS  
THRUST BEARINGS  
**RT** BEARING  
BEARING ALLOYS  
BUSHINGS  
GIMBALS  
IDLERS  
INTERNAL COMBUSTION ENGINES  
LUBRICATION  
PACKINGS (SEALS)  
PIVOTS  
SHAFTS (MACHINE ELEMENTS)  
SUPPORTS  
SUSPENSION SYSTEMS (VEHICLES)  
SWIVELS  
#WHEELS  
**BEAT**  
**USE** SYNCHRONISM  
**BEAT FREQUENCIES**  
0702 0704 0903 1002  
**BT** #FREQUENCIES  
**RT** GROUP VELOCITY  
INTERMEDIATE FREQUENCY AMPLIFIERS  
MOIRE EFFECTS  
RESONANT FREQUENCIES  
STANDING WAVES  
SUPERHETERODYNE RECEIVERS  
**BED REST**  
0405 0408  
**BT** REST  
**RT** CALCIUM METABOLISM  
CLINICAL MEDICINE  
ORTHOSTATIC TOLERANCE  
**BEDDING EQUIPMENT**  
0508  
**RT** BLANKETS  
EQUIPMENT  
**BEDIASITES**  
1805 3005  
**BT** #CELESTIAL BODIES  
METEORITES  
STONY METEORITES  
TEKTITES  
**RT** AUSTRALITES  
**BEDS**  
0202 0506 0603 1101 1104  
**RT** BEDS (PROCESS ENGINEERING)  
COUCHES  
**BEDS (PROCESS ENGINEERING)**  
0602  
**RT** BEDS  
CHEMICAL REACTORS  
EXTRACTION  
FILTRATION

## BEECH AIRCRAFT

FLUIDIZED BED PROCESSORS  
ION EXCHANGING  
PERCOLATION  
BEECH AIRCRAFT  
USE BEECHCRAFT AIRCRAFT  
BEECH C-33 AIRCRAFT  
USE C-33 AIRCRAFT  
BEECH S-35 AIRCRAFT  
USE C-35 AIRCRAFT  
BEECHCRAFT AIRCRAFT  
0201 0204  
UP BEECH AIRCRAFT  
BT BEECHCRAFT 18 AIRCRAFT  
BEECHCRAFT 95 AIRCRAFT  
C-33 AIRCRAFT  
C-35 AIRCRAFT  
RT AIRCRAFT  
BEECHCRAFT 18 AIRCRAFT  
0204  
BT BEECHCRAFT AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
BEECHCRAFT 95 AIRCRAFT  
0204  
BT BEECHCRAFT AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
BEER LAW  
2306 2402  
RT ABSORPTIVITY  
BOUGUER LAW  
ELECTROMAGNETIC ABSORPTION  
MOLECULAR ABSORPTION  
BEES  
0402  
BT #ANIMALS  
ARTHROPODS  
INSECTS  
INVERTEBRATES  
RT SWARMING  
BEETLES  
0402  
NT TRIBOLIA  
BT #ANIMALS  
ARTHROPODS  
CHICKETS  
INSECTS  
INVERTEBRATES  
RT TRIBOLIA  
BEHAVIOR  
0408 0410 3406  
NT HUMAN BEHAVIOR  
RT CONDITIONING (LEARNING)  
DIAGNOSIS  
#EDUCATION  
EXTROVERSION  
#LEARNING  
MIGRATION  
SKINNER BOXES  
BELFAST AIRCRAFT  
USE SC-5 AIRCRAFT  
BELGIUM  
1305  
RT EUROPE  
NATIONS  
BELL AIRCRAFT  
0201 0207  
NT OH-4 HELICOPTER  
OH-13 HELICOPTER  
UH-1 HELICOPTER  
X-1 AIRCRAFT  
X-2 AIRCRAFT  
X-5 AIRCRAFT  
X-14 AIRCRAFT  
X-22 AIRCRAFT  
XV-3 AIRCRAFT  
BT AIRCRAFT  
BELLMAN THEORY  
1902 3401  
RT DYNAMIC PROGRAMMING  
#OPTIMIZATION  
BELLOWES  
1504  
(EXPANDABLE JOINTS--FOR DEVICES TO  
MOVE GASES, USE BLOWERS)  
BT #EXPANDABLE STRUCTURES  
RT EXPULSION BLADDERS  
#PUMPS  
BELLS  
0701 1108 2301 3202

BT AUDITORY SIGNALS  
PRESSURE VESSELS  
PSYCHOACOUSTICS  
SIGNALS  
SOUND GENERATORS  
WARNING  
#WARNING SYSTEMS  
BELTRAMI FLOW  
1204  
BT #FLUID FLOW  
BT INCOMPRESSIBLE FLOW  
STEADY FLOW  
VORTICITY  
BELTS  
0508 1103 1307 1308 1502 1504 2903  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CABLES (ROPES)  
#FASTENERS  
GIRDLES  
PULLEYS  
RADIATION BELTS  
#REGIONS  
ROUSE BELTS  
SEAT BELTS  
TERRESTRIAL DUST BELT  
BERNARD CELLS  
1202 3303  
RT CONVECTION CURRENTS  
RAYLEIGH NUMBER  
BENCHES  
USE SEATS  
BENDING  
1505 1704 3203 3407  
NT ELASTIC BENDING  
RT BENDING MOMENTS  
BENDING THEORY  
BOWS  
BUCKLING  
CAMBER  
DEFLECTION  
#DEFORMATION  
DISPLACEMENT  
DISTORTION  
ELASTIC DEFORMATION  
FATIGUE TESTS  
FIBER STRENGTH  
FLEXIBILITY  
FLEXING  
FLUTTER  
FOLDING  
HEAVING  
MODULUS OF ELASTICITY  
PLASTIC DEFORMATION  
STIFFNESS  
STRUCTURAL FAILURE  
STRUCTURAL STRAIN  
TEMPERATURE INVERSIONS  
TWISTING  
WARPAGE  
BENDING DIAGRAMS  
3203  
BT DIAGRAMS  
RT BENDING MOMENTS  
DEFLECTION  
BENDING FATIGUE  
3204  
BT FATIGUE (MATERIALS)  
RT BENDING THEORY  
BENDING VIBRATION  
METAL FATIGUE  
S-N DIAGRAMS  
BENDING MOMENTS  
3203  
BT #MOMENTS  
RT BENDING  
BENDING DIAGRAMS  
BENDING THEORY  
LOADING MOMENTS  
STATIC LOADS  
STRESS ANALYSIS  
TORQUE  
BENDING THEORY  
3203  
RT BENDING  
BENDING FATIGUE  
BENDING MOMENTS  
STRESS ANALYSIS  
THEORIES  
BENDING VIBRATION  
3203

## NASA THESAURUS (ALPHABETICAL LISTING)

BT STRUCTURAL VIBRATION  
#VIBRATION  
RT BENDING FATIGUE  
BREATHING VIBRATION  
FLUTTER  
MISSILE VIBRATION  
PANEL FLUTTER  
RANDOM VIBRATION  
SELF INDUCED VIBRATION  
BENDS (PHYSIOLOGY)  
USE DECOMPRESSION SICKNESS  
BENEFICIATION  
0602 3407  
RT ABSORPTION  
ADSORPTION  
AERATION  
COMMUNION  
CONCENTRATING  
CONDITIONING  
ENRICHMENT  
EXPLOITATION  
EXTRACTION  
FILTRATION  
FLOTATION  
FOAMING  
LEACHING  
METALLURGY  
#MINERALS  
PURIFICATION  
REFINING  
SEPARATION  
SETTLING  
SIZE SEPARATION  
SUBLIMATION  
UPGRADING  
WASHING  
#WASTES  
BENSEN B-8M AUTOGYRO  
0205 0206  
BT AUTOGYROS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
BENTONITE  
1805 1806 1809  
RT MONTMORILLONITE  
WATER TREATMENT  
BENZENE  
0403 1808  
BT #HYDROCARBONS  
RT CHLOROBENZENES  
BENZENE POISONING  
0405 0412  
RT HYDROCARBON POISONING  
INDUSTRIAL SAFETY  
POISONING  
TOXICITY AND SAFETY HAZARD  
TOXICOLOGY  
BENZILIC ACID  
0403 1808  
BT #ACIDS  
CARBOXYLIC ACIDS  
BENZOIC ACID  
0403 1808  
BT #ACIDS  
CARBOXYLIC ACIDS  
BERENICE ROCKET VEHICLE  
3101 3106  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT HYPERSONIC REENTRY  
SOLID PROPELLANT ROCKET ENGINES  
BERGHAN OPERATOR  
1902  
BT OPERATORS (MATHEMATICS)  
BERING SEA  
1305  
BT SEAS  
BERKELIUM  
0603 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPIES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPIES  
TRANSURANIUM ELEMENTS  
BERNUDA  
1305  
BT #ISLANDS  
RT ATLANTIC OCEAN

# NASA THESAURUS (ALPHABETICAL LISTING)

BERNOULLI EQUATION  
 USE - BERNOULLI THEOREM  
 BERNOULLI THEOREM  
 0101 0201 1202  
 UP BERNOULLI EQUATION  
 BT #THEOREMS  
 RT #FLUID FLOW  
 ISENTROPIC PROCESSES  
 LINEARIZATION  
 MAGNUS EFFECT  
 BERNSTEIN ENERGY PRINCIPLE  
 2307 2311  
 BT ENERGY METHODS  
 #STRUCTURAL ANALYSIS  
 ENERGY  
 RT #MAGNETIC FIELDS  
 BERYL  
 1806 2601  
 UP EMERALD  
 BT #ALUMINUM COMPOUNDS  
 BERYLLIUM COMPOUNDS  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 RT BERYLLIUM  
 BERYLLIUM  
 1703  
 NT BERYLLIUM ISOTOPES  
 BERYLLIUM 7  
 BERYLLIUM 9  
 BERYLLIUM 10  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RT BERYL  
 MODERATORS  
 BERYLLIUM ALLOYS  
 1701 1704  
 BT #ALLOYS  
 LIGHT ALLOYS  
 BERYLLIUM BOROHYDRIDES  
 0603 1804  
 BT BERYLLIUM COMPOUNDS  
 BOROHYDRIDES  
 #BORON COMPOUNDS  
 BORON HYDRIDES  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 BERYLLIUM CHLORIDES  
 0603 1804  
 BT BERYLLIUM COMPOUNDS  
 CHLORIDES  
 CHLORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 BERYLLIUM COMPOUNDS  
 0603 1804  
 NT BERYL  
 BERYLLIUM BOROHYDRIDES  
 BERYLLIUM CHLORIDES  
 BERYLLIUM FLUORIDES  
 BERYLLIUM HYDRIDES  
 BERYLLIUM NITRIDES  
 BERYLLIUM OXIDES  
 RT ALKALINE EARTH COMPOUNDS  
 METAL COMPOUNDS  
 METAL FUELS  
 METAL PROPELLANTS  
 BERYLLIUM FLUORIDES  
 0603 1804  
 BT BERYLLIUM COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 BERYLLIUM HYDRIDES  
 0603 1804  
 BT BERYLLIUM COMPOUNDS  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 METAL HYDRIDES  
 BERYLLIUM ISOTOPES  
 1703 2406  
 NT BERYLLIUM 7  
 BERYLLIUM 9  
 BERYLLIUM 10  
 BT BERYLLIUM  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES

BERYLLIUM NITRIDES  
 0603 1804  
 BT BERYLLIUM COMPOUNDS  
 NITRIDES  
 #NITROGEN COMPOUNDS  
 BERYLLIUM OXIDES  
 0603 1801-1804  
 BT ALKALINE EARTH OXIDES  
 BERYLLIUM COMPOUNDS  
 #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 BERYLLIUM POISONING  
 0405 0412  
 RT INDUSTRIAL SAFETY  
 POISONING  
 RESPIRATORY DISEASES  
 TOXICITY AND SAFETY HAZARD  
 TOXICOLOGY  
 BERYLLIUM 7  
 0603 1703 2406 1703 2406  
 BT BERYLLIUM  
 BERYLLIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 BERYLLIUM 9  
 0603 1703 2406 1703 2406  
 BT BERYLLIUM  
 BERYLLIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 BERYLLIUM 10  
 1703 2406  
 BT BERYLLIUM  
 BERYLLIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 BESSEL-BREDICHIN THEORY  
 1902  
 RT COMETS  
 RADIATION PRESSURE  
 THEORIES  
 BESSEL FUNCTIONS  
 1902 1903  
 NT HANKEL FUNCTIONS  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 REAL VARIABLES  
 RT BOUNDARY VALUE PROBLEMS  
 DIFFERENTIAL EQUATIONS  
 HYPERGEOMETRIC FUNCTIONS  
 ORTHOGONAL FUNCTIONS  
 POWER LINES  
 BETA PARTICLES  
 2403 2406  
 BT CORPUSCULAR RADIATION  
 ELECTRON RADIATION  
 ELEMENTARY PARTICLES  
 #IONIZING RADIATION  
 NUCLEAR PARTICLES  
 NUCLEAR RADIATION  
 #PARTICLES  
 RT ELECTRON BEAMS  
 ELECTRONS  
 FLUX (RATE)  
 N ELECTRONS  
 BETAINES  
 0403 1808  
 BT ALKALOIDS  
 #HETEROCYCLIC COMPOUNDS  
 #NITROGEN COMPOUNDS  
 BETATONS  
 2202 2403 3404  
 BT CYCLIC ACCELERATORS  
 ELECTRON ACCELERATORS  
 #PARTICLE ACCELERATORS  
 RT MICROTRONS  
 SYNCHROTRONS  
 BETHE-HEITLER FORMULA  
 1902 2306 2402 2403  
 BT FORMULAS (MATHEMATICS)  
 #MATHEMATICAL LOGIC  
 BETHE-SALPETER EQUATION  
 1902 2403  
 BT #ANALYSIS (MATHEMATICS)  
 REAL VARIABLES

## BINARY ALLOYS

RT DIFFERENTIAL EQUATIONS  
 EQUATIONS  
 #EQUATIONS OF MOTION  
 KINETIC EQUATIONS  
 BEVATRON  
 2202 2403 3404  
 RT SYNCHROCYCLOTRONS  
 BEVERAGES  
 0505  
 NT WINES  
 BT #POTABLE LIQUIDS  
 RT DRINKING  
 FOOD  
 MILK  
 BIAS  
 0410  
 UP SELF BIAS  
 NT RESPONSE BIAS  
 RT COMPENSATORS  
 DISPLACEMENT  
 ELECTRIC POTENTIAL  
 ERRORS  
 INSTRUMENT ERRORS  
 TUBE GRIDS  
 BIBLIOGRAPHIES  
 3405  
 BT #DOCUMENTS  
 RT ABSTRACTS  
 BIOGRAPHY  
 DOCUMENTATION  
 HANDBOOKS  
 INDEXES (DOCUMENTATION)  
 INFORMATION DISSEMINATION  
 INFORMATION RETRIEVAL  
 LIBRARIES  
 LITERATURE  
 REFERENCE SYSTEMS  
 SPACE GLOSSARIES  
 SUMMARIES  
 BICARBONATES  
 USE CARBONATES  
 BICRYSTALS  
 2601  
 BT #CRYSTALS  
 RT POLYCRYSTALS  
 SINGLE CRYSTALS  
 BICYCLE  
 0401 1101 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT LANDING GEAR  
 #SURFACE VEHICLES  
 BIG SHOT PROJECT  
 0205 3409  
 BT #PROGRAMS  
 PROJECTS  
 BIHARMONIC EQUATIONS  
 1902 1903  
 BT #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 PARTIAL DIFFERENTIAL EQUATIONS  
 REAL VARIABLES  
 RT ELASTIC PROPERTIES  
 BILITHIC CIRCUITS  
 0902 1001 1002  
 BT #CIRCUITS  
 RT ELECTRONIC PACKAGING  
 MICROMINIATURIZATION  
 BILLETS  
 1703 1704 3204  
 RT CASTING  
 CASTINGS  
 FORGING  
 INGOTS  
 METAL PLATES  
 METAL STRIPS  
 RODS  
 SLABS  
 #WIRE  
 BINETALS  
 1701 1703 1704  
 RT #ALLOYS  
 #COMPOSITE MATERIALS  
 METAL BONDING  
 #METALS  
 BINARY ALLOYS  
 1701 1704  
 BT #ALLOYS  
 #BINARY SYSTEMS (MATERIALS)  
 RT BINARY MIXTURES

# BINARY CODES

BINARY CODES  
0802 0803 1902  
RT BCH CODES  
BINARY DIGITS  
CODES  
DIGITAL SYSTEMS

BINARY DATA  
0802 0803  
RT ANALOG DATA  
BINARY DIGITS  
BINARY INTEGRATION  
BINARY TO DECIMAL CONVERTERS  
DATA  
#DATA PROCESSING  
DECIMAL TO BINARY CONVERTERS  
DIGITAL DATA

BINARY DIGITS  
0802 0803 1902 1903  
BT #ALPHANUMERIC CHARACTERS  
DIGITS  
RT BINARY CODES  
BINARY DATA  
BITS  
DIGITAL SYSTEMS

BINARY FLUIDS  
0603 1201 1202  
BT BINARY MIXTURES  
#BINARY SYSTEMS (MATERIALS)  
#MIXTURES  
RT FLUIDS  
GAS MIXTURES  
#KINETIC THEORY  
LENNARD-JONES GAS  
#TRANSPORT PROPERTIES

BINARY INTEGRATION  
0802 1902 1903  
BT #ANALYSIS (MATHEMATICS)  
MEASURE AND INTEGRATION  
REAL VARIABLES  
RT ADDING CIRCUITS  
BINARY DATA  
DIGITAL INTEGRATORS

BINARY MIXTURES  
0603 1701 1704 1806  
NT BINARY FLUIDS  
EUTECTIC ALLOYS  
EUTECTICS  
BT #BINARY SYSTEMS (MATERIALS)  
#MIXTURES  
RT AZEOTROPES  
BINARY ALLOYS  
GAS MIXTURES  
LIQUID-GAS MIXTURES

BINARY STARS  
1901 3001  
NT COMPANION STARS  
ECLIPSING BINARY STARS  
BT #CELESTIAL BODIES  
STARS  
RT STAR CLUSTERS  
TWO BODY PROBLEM  
VARIABLE STARS

BINARY SUMMATORS  
USE ADDING CIRCUITS  
BINARY SYSTEMS (DIGITAL)  
USE DIGITAL SYSTEMS  
#BINARY SYSTEMS (MATERIALS)  
1704 1805 2601  
UF TWO PHASE SYSTEMS  
NT BINARY ALLOYS  
BINARY FLUIDS  
BINARY MIXTURES  
EUTECTIC ALLOYS  
EUTECTICS  
RT #ALLOYS  
PHASE DIAGRAMS  
SYSTEMS  
TERNARY SYSTEMS

BINARY TO DECIMAL CONVERTERS  
0802 1902  
BT DATA CONVERTERS  
RT BINARY DATA  
#COMPUTER COMPONENTS  
#DATA PROCESSING  
DECIMAL TO BINARY CONVERTERS

BINAURAL HEARING  
0408 2301  
BT HEARING  
RT AUDITORY PERCEPTION  
SOUND LOCALIZATION  
WEBER TEST

BINDERS (ADHESIVES)  
USE ADHESIVES  
#BINDERS (MATERIALS)  
0403 0601 1805 1808  
NT PROPELLANT BINDERS  
SOLID ROCKET BINDERS  
RT #ADDITIVES  
ADHESIVES  
CEMENTS  
MOLDING MATERIALS  
SIZING MATERIALS  
SOLID LUBRICANTS

BINDING  
1507 1811 2401 2404 2405  
RT #BONDING  
COLLATING  
FOLDING  
JOINING  
PRINTING  
SEALING  
SEWING

BINOCULAR VISION  
0404 0408  
BT VISION  
RT SPACE PERCEPTION  
STEREOSCOPIC VISION

BINOCULARS  
1412 2310  
BT #OPTICAL EQUIPMENT  
RT EYEPIECES  
MICROSCOPES  
PERISCOPES  
#TELESCOPES

BINOMIAL COEFFICIENTS  
1902  
BT #COEFFICIENTS  
COMBINATORIAL ANALYSIS  
RT BINOMIAL THEOREM  
FACTORIALS

BINOMIAL THEOREM  
1902  
BT #ALGEBRA  
#THEOREMS  
RT BINOMIAL COEFFICIENTS  
BINOMIALS  
PROBABILITY DENSITY FUNCTIONS  
PROBABILITY THEORY  
#STATISTICAL ANALYSIS  
STATISTICAL DISTRIBUTIONS

BINOMIALS  
1902  
BT #ALGEBRA  
POLYNOMIALS  
RT BINOMIAL THEOREM

BIOACOUSTICS  
0404 0504 0508 2301  
BT ACOUSTICS  
RT ACOUSTIC ATTENUATION  
AUDITORY DEFECTS  
#BIOENGINEERING  
PSYCHOACOUSTICS  
SOUND INTENSITY

BIOASSAY  
0403 0404 0601  
UF BIOLOGICAL ANALYSIS  
RT BIOCHEMISTRY  
BIOLOGICAL EFFECTS

BIOASTRONAUTICAL ORBITAL SPACE SYSTEM  
0401 3409  
BT NASA PROGRAMS  
#PROGRAMS

BIOASTRONAUTICS  
0401 0404 0504 0506 0507  
(BIOLOGICAL, BEHAVIORAL AND MEDICAL  
ASPECTS EXPECTED TO BE FOUND IN SPACE  
VEHICLES DESIGNED TO TRAVEL IN SPACE  
AND ON CELESTIAL BODIES OTHER THAN ON  
EARTH)  
RT AEROSPACE ENVIRONMENTS  
AEROSPACE MEDICINE  
ASTRONAUTICS  
#BIOENGINEERING  
BIOLOGY  
BIOSATELLITE 1  
BIOSATELLITE 2  
BIOSATELLITE 3  
CLOSED ECOLOGICAL SYSTEMS  
#EARTH ATMOSPHERE  
EXO BIOLOGY  
LUNAR ENVIRONMENT  
PLANETARY ENVIRONMENTS  
SPACE EXPLORATION

# NASA THESAURUS (ALPHABETICAL LISTING)

#SPACE FLIGHT  
SPACE STATIONS  
SPACECRAFT ENVIRONMENTS

BIOCHEMICAL FUEL CELLS  
0302 0403  
BT DIRECT POWER GENERATORS  
#ELECTRIC GENERATORS  
#ELECTROCHEMICAL CELLS  
FUEL CELLS  
RT REGENERATIVE FUEL CELLS

BIOCHEMISTRY  
0403  
NT BACTERIOLOGY  
BIOGEOCHEMISTRY  
ENZYMOLGY  
PHYSIOCHEMISTRY  
RT BIOASSAY  
#BIOENGINEERING  
BIOLOGY  
CHEMICAL WARFARE  
CHEMISTRY  
CYTOLOGY  
INTERFERON  
MOLECULAR BIOLOGY  
NUTRITION  
ORGANIC CHEMISTRY

BIOCLIMATOLOGY  
0404 2001 2003  
UF BIOMETEOROLOGY  
BT CLIMATOLOGY  
RT COASTAL ECOLOGY  
ECOLOGY  
MICROCLIMATOLOGY  
NIGHTGLOW

BIOCONTROL SYSTEMS  
0506  
RT BIONICS  
PSYCHOMOTOR PERFORMANCE  
TOLERANCES (PHYSIOLOGY)

BIODYNAMICS  
0101 0401 0404 0408 0506  
UF BIOMECHANICS  
RT #ANATOMY  
#BIOENGINEERING  
BIOLOGY  
BIOPHYSICS  
DYNAMICS  
#STRESS (PHYSIOLOGY)

BIOELECTRIC POTENTIAL  
0403 0404 2304  
BT ELECTRIC POTENTIAL  
#POTENTIAL ENERGY  
RT BIOELECTRICITY

BIOELECTRICITY  
0403 0404 2304  
UF NEURON TRANSMISSION  
RT BIOELECTRIC POTENTIAL  
NEUROMUSCULAR TRANSMISSION  
SPIKE POTENTIALS

#BIOENGINEERING  
0404 0501 0503 0505 0506 3404  
NT ANTHROPOMETRY  
BALLISTOCARDIOGRAPHY  
BIONSTRUMENTATION  
BIOMETRICS  
BIOTELEMETRY  
BODY MEASUREMENT (BIOLOGY)  
CARDIOGRAPHY  
ELECTROCARDIOGRAPHY  
ELECTROENCEPHALOGRAPHY  
ELECTROMYOGRAPHY  
ELECTROPLETHYSMOGRAPHY  
ELECTRORETINOGRAPHY  
PLETHYSMOGRAPHY  
RT BIOACOUSTICS  
BIOASTRONAUTICS  
BIOCHEMISTRY  
BIODYNAMICS  
BIOLOGY  
BIONICS  
BIOPAKS  
BIOPHYSICS  
ENGINEERING  
HUMAN FACTORS ENGINEERING  
MAGNETOCARDIOGRAPHY  
UNDERWATER BREATHING APPARATUS

BIOFLAVONOIDS  
0403 1808  
UF VITAMIN P  
BT #HETEROCYCLIC COMPOUNDS  
VITAMINS  
RT #DRUGS

# NASA THESAURUS (ALPHABETICAL LISTING)

**BIOGENESIS**  
 USE BIOLOGICAL EVOLUTION  
**BIOGENY**  
 0404  
 RT EVOLUTION  
**BIOGEOCHEMISTRY**  
 0403 0404 0409 0601 1306 1308  
 BT BIOCHEMISTRY  
 GEOCHEMISTRY  
 RT BOTANY  
 CHEMISTRY  
 #MINERALS  
 #PLANTS (BOTANY)  
**BIOGRAPHY**  
 3403  
 BT LITERATURE  
 RT BIBLIOGRAPHIES  
 CASE HISTORIES  
 DOCUMENTATION  
**BIOINSTRUMENTATION**  
 0401 0501 0506  
 UF BIOSENSORS  
 NT BIOTELEMETRY  
 BT #BIOENGINEERING  
 RT BIOMETRICS  
 BIONICS  
 ENGINEERING  
 INSTRUMENTS  
 MAGNETOCARDIOGRAPHY  
 #MEASURING INSTRUMENTS  
 RESPIROMETERS  
 SENSORS  
 SPHYGMOGRAPHY  
**BIOLOGICAL ACTIVITY**  
 USE ACTIVITY (BIOLOGY)  
**BIOLOGICAL ANALYSIS**  
 USE BIOASSAY  
**BIOLOGICAL CELLS**  
 USE #CELLS (BIOLOGY)  
**BIOLOGICAL EFFECTS**  
 0408 0411 0401  
 NT RELATIVE BIOLOGICAL EFFECTIVENESS  
 (RBE)  
 RT ACTIVITY (BIOLOGY)  
 ATROPHY  
 BIOASSAY  
 BIOLOGY  
 BIOMEDICAL DATA  
 CHEMICAL EFFECTS  
 DISORIENTATION  
 DOSAGE  
 EFFECTS  
 FLIGHT STRESS (BIOLOGY)  
 HUMAN REACTIONS  
 PATHOLOGICAL EFFECTS  
 #PHYSIOLOGICAL EFFECTS  
 #PSYCHOLOGICAL EFFECTS  
 RADIATION DOSAGE  
 RADIATION EFFECTS  
 #TEMPERATURE  
 THERMAL POLLUTION  
**BIOLOGICAL EVOLUTION**  
 0403 0404 0411  
 UF BIOGENESIS  
 NT ABIOTIC EVOLUTION  
 BT #EVOLUTION (DEVELOPMENT)  
 RT #GENETICS  
 LIFE SCIENCES  
 MUTATIONS  
**BIOLOGICAL MODELS**  
 USE BIONICS  
**BIOLOGICAL RHYTHM**  
 USE RHYTHM (BIOLOGY)  
**BIOLOGY**  
 0404 0407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BACTERIOLOGY  
 BIOASTRONAUTICS  
 BIOCHEMISTRY  
 BIODYNAMICS  
 #BIOENGINEERING  
 BIOLOGICAL EFFECTS  
 BIOMETRICS  
 BIONICS  
 BIOPHYSICS  
 BIOTELEMETRY  
 BOTANY  
 CYTOGENESIS  
 CYTOLOGY  
 ECOLOGY

**EMBRYOLOGY**  
 #EVOLUTION (DEVELOPMENT)  
 #GENETICS  
 IMMUNOLOGY  
 INTERFERON  
 MARINE BIOLOGY  
 #MEDICAL SCIENCE  
 MICROBIOLOGY  
 MOLECULAR BIOLOGY  
 MORPHOLOGY  
 RADIOBIOLOGY  
**BIOLUMINESCENCE**  
 0404 0605 2306 2402 3408  
 BT #DECAY  
 EMISSION  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT PHOSPHORESCENCE  
**BIOMECH. CS**  
 USE BIODYNAMICS  
**BIOMEDICAL DATA**  
 0401 0404 0405 0408 0412 0802  
 RT AEROSPACE MEDICINE  
 BIOLOGICAL EFFECTS  
 BIOMETRICS  
 BODY MEASUREMENT (BIOLOGY)  
 CARDIOGRAMS  
 DATA  
 HEART RATE  
**BIOMETEOROLOGY**  
 USE BIOCLIMATOLOGY  
**BIOMETRICS**  
 0404 0501 1902 1905  
 NT ANTHROPOMETRY  
 BALLISTOCARDIOGRAPHY  
 BODY MEASUREMENT (BIOLOGY)  
 CARDIOGRAPHY  
 ELECTROCARDIOGRAPHY  
 ELECTROENCEPHALOGRAPHY  
 ELECTROMYOGRAPHY  
 ELECTROPLETHYSMOGRAPHY  
 ELECTRORETINOGRAPHY  
 MAGNETOCARDIOGRAPHY  
 PLETHYSMOGRAPHY  
 BT #BIOENGINEERING  
 RT BIOINSTRUMENTATION  
 BIOLOGY  
 BIOMEDICAL DATA  
 ENGINEERING  
 PUPILLOMETRY  
 #STATISTICAL ANALYSIS  
 STATISTICS  
**BIONICS**  
 0404 0503 1002  
 UF BIOLOGICAL MODELS  
 BIOSIMULATION  
 RT ARTIFICIAL INTELLIGENCE  
 AUTOMATA THEORY  
 BIOCONTROL SYSTEMS  
 #BIOENGINEERING  
 BIOINSTRUMENTATION  
 BIOLOGY  
 CYBERNETICS  
 HUMAN FACTORS ENGINEERING  
 MAN MACHINE SYSTEMS  
 NEURISTORS  
 RHEOELECTRICAL SIMULATION  
 ROBOTS  
 #SIMULATION  
 SYNCODERS  
 SYSTEMS ENGINEERING  
**BIOPAKS**  
 0504 0507 3104  
 BT LIFE SUPPORT SYSTEMS  
 RT #BIOENGINEERING  
 BIOSATELLITES  
 CONTAINERS  
 ENCLOSURES  
 PORTABLE LIFE SUPPORT SYSTEMS  
 PRESERVING  
**BIOPHYSICS**  
 0404 0411 2311  
 NT HEALTH PHYSICS  
 RT BIODYNAMICS  
 #BIOENGINEERING  
 BIOLOGY  
 PHYSICS  
**BIOREGENERATION**  
 USE REGENERATION (PHYSIOLOGY)  
**BIOSEX PROJECT**  
 3409  
 BT #PROGRAMS

## BIOTITE

PROJECTS  
**BIOSATELLITE 1**  
 0404 3107  
 BT ARTIFICIAL SATELLITES  
 BIOSATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 RT BIOASTRONAUTICS  
**BIOSATELLITE 2**  
 0404 3107  
 BT ARTIFICIAL SATELLITES  
 BIOSATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 RT BIOASTRONAUTICS  
**BIOSATELLITE 3**  
 0404 3107  
 BT ARTIFICIAL SATELLITES  
 BIOSATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 RT ASTRONAUTICS  
 BIOASTRONAUTICS  
**BIOSATELLITES**  
 3107 0404  
 (EXCLUDES MANNED SPACECRAFT)  
 NT BIOSATELLITE 1  
 BIOSATELLITE 2  
 BIOSATELLITE 3  
 SPUTNIK 2 SATELLITE  
 SPUTNIK 6 SATELLITE  
 SPUTNIK 7 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 RT AEROSPACE ENVIRONMENTS  
 BIOPAKS  
 ENVIRONMENTAL CONTROL  
 EXTRATERRESTRIAL LIFE  
 LIFE DETECTORS  
 LIFE SUPPORT SYSTEMS  
 #MANNED SPACECRAFT  
 #SPACE CAPSULES  
 SPACECRAFT  
**BIOSENSORS**  
 USE BIOINSTRUMENTATION  
**BIOSIMULATION**  
 USE BIONICS  
**BIOSPHERE**  
 USE EARTH HYDROSPHERE  
 LOWER ATMOSPHERE  
**BIOSYNTHESIS**  
 0403 0404  
 RT #CHEMICAL REACTIONS  
 SYNTHESIS  
**BIOT METHOD**  
 1902  
 RT CALCULUS OF VARIATIONS  
 METHODOLOGY  
**BIOTECHNOLOGY**  
 0404 3404  
 RT ARTIFICIAL HEART VALVES  
 MAN MACHINE SYSTEMS  
**BIOTELEMETRY**  
 0501 0708  
 UF PHYSIOLOGICAL TELEMETRY  
 BT #BIOENGINEERING  
 BIOINSTRUMENTATION  
 #SIGNAL TRANSMISSION  
 #TELECOMMUNICATION  
 TELEMETRY  
 RT BIOLOGY  
 #COMMUNICATION EQUIPMENT  
 ENGINEERING  
 PNEUMOGRAPHY  
**BIOTIN**  
 0403 0404 1808  
 UF VITAMIN B COMPLEX  
 BT #HETEROCYCLIC COMPOUNDS  
 VITAMINS  
 RT AVIDIN  
 #DRUGS  
**BIOTITE**  
 1806  
 UF KIMBERLITE  
 BT MICA  
 #MINERALS

# BIPLANES

## BIPLANES

0101 0104  
RT LIGHT AIRCRAFT  
MONOPLANES  
TANDEM WING AIRCRAFT  
UTILITY AIRCRAFT

BIPROPELLANTS  
USE LIQUID ROCKET PROPELLANTS

BIRDS  
0402  
NT CHICKENS  
PIGEONS  
TURKEYS  
BT #ANIMALS  
VERTEBRATES  
RT AIRCRAFT HAZARDS  
EARTH RESOURCES  
FLIGHT HAZARDS  
PLUMAGE

BIREFRINGENCE  
0710 2306 2310 2402 2601  
UP POKKELS EFFECT  
BT #REFRACTION  
RT ANISOTROPIC MEDIA  
#ANISOTROPY  
BIREFRINGENT COATINGS  
CALCITE  
ELECTRO-OPTICS  
ELECTROMAGNETIC PROPERTIES  
MOIRE EFFECTS  
PHOTOELASTICITY  
POLARIZATION (WAVES)  
REFLECTANCE  
REFRACTIVITY  
TEMPERATURE INVERSIONS  
VOIGT EFFECT

BIREFRINGENT COATINGS  
1802 1809 1810  
BT #COATINGS  
RT ANISOTROPIC MEDIA  
BIREFRINGENCE  
REFRACTIVITY

BIRTH  
0404 0405  
RT PREGNANCY

BISMUTH  
0603 1703  
NT BISMUTH ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS

BISMUTH ALLOYS  
1701 1704  
BT #ALLOYS

BISMUTH COMPOUNDS  
0603 1804  
NT BISMUTH OXIDES  
BISMUTH SULFIDES  
BISMUTH TELLURIDES  
RT GROUP 5A COMPOUNDS  
METAL COMPOUNDS

BISMUTH ISOTOPES  
1703 2406  
UP BISMUTH 205  
BT BISMUTH  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES

BISMUTH OXIDES  
0603 1804  
BT BISMUTH COMPOUNDS  
#CHALCOGENIDES  
METAL OXIDES  
OXIDES

BISMUTH SULFIDES  
0603 1804  
BT BISMUTH COMPOUNDS  
#CHALCOGENIDES  
INORGANIC SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS

BISMUTH TELLURIDES  
0603 1804  
BT BISMUTH COMPOUNDS  
#CHALCOGENIDES  
TELLURIDES  
#TELLURIUM COMPOUNDS

BISMUTH 205  
USE BISMUTH ISOTOPES

BISPHENOLS  
1808  
BT ALCOHOLS  
#HYDROXYL COMPOUNDS

PHENOLS  
BISTABLE AMPLIFIERS  
USE FLIP-FLOPS  
BISTABLE CIRCUITS  
0801 0902 1001 1002 1201  
BT #CIRCUITS  
RT DIGITAL TECHNIQUES  
FLIP-FLOPS  
MULTIVIBRATORS  
TRIGGER CIRCUITS

BISTATIC REFLECTIVITY  
0701 0702 0710 2301 2310  
RT BRIGHTNESS  
INCIDENT RADIATION  
REFLECTANCE  
#SCATTERING

BIT SYNCHRONIZATION  
0802  
BT SYNCHRONISM  
RT FREQUENCY SYNCHRONIZATION

BITERINARY CODE  
0705 0710 0902  
RT CODES  
DIGITAL SYSTEMS  
PULSE CODE MODULATION

BITS  
0703 0801 0802 0803  
RT BINARY DIGITS  
DRILL BITS

BITUMENS  
1805 1806  
RT CARBON  
COAL  
COKE  
CONSTRUCTION MATERIALS  
MATERIALS

BIVARIATE ANALYSIS  
1905  
BT MULTIVARIATE STATISTICAL ANALYSIS  
#STATISTICAL ANALYSIS  
RT CORRELATION

BLACK AND WHITE PHOTOGRAPHY  
1407  
BT #IMAGERY  
#PHOTOGRAPHY  
RT ALL SKY PHOTOGRAPHY  
ASTRONOMICAL PHOTOGRAPHY  
AUTORADIOGRAPHY  
CHRONOPHOTOGRAPHY  
CINEMATOPHOTOGRAPHY  
CLOUD PHOTOGRAPHY  
COLOR PHOTOGRAPHY  
ELECTRO-OPTICAL PHOTOGRAPHY  
ELECTRON PHOTOGRAPHY  
FRAME PHOTOGRAPHY  
INFRARED PHOTOGRAPHY  
LUNAR PHOTOGRAPHY  
PHOTOMICROGRAPHY  
PHOTORECONNAISSANCE  
RADAR PHOTOGRAPHY  
ROCKET-BORNE PHOTOGRAPHY  
SATELLITE-BORNE PHOTOGRAPHY  
SCHLIEREN PHOTOGRAPHY  
SHADOWGRAPH PHOTOGRAPHY  
SPACEBORNE PHOTOGRAPHY  
SPECTROHELIOGRAPHS  
SPECTROPHOTOGRAPHY  
STEREOPHOTOGRAPHY  
ULTRAVIOLET PHOTOMETRY  
UROGRAPHY

BLACK ARROW LAUNCH VEHICLE  
USE BLACK KNIGHT ROCKET VEHICLE

BLACK BODY RADIATION  
2401 2402  
BT #ELECTROMAGNETIC RADIATION  
RT BRIGHTNESS TEMPERATURE  
EMISSION  
HEAT RADIATORS  
HOHLBAUMS  
INFRARED RADIATION  
KIRCHHOFF LAW OF RADIATION  
LIGHT (VISIBLE RADIATION)  
NONGRAY ATMOSPHERES  
NONGRAY GAS  
PLANCKS CONSTANT  
RADIANCE  
SUNLIGHT  
THERMAL RADIATION  
ULTRAVIOLET RADIATION

BLACK BRANT 1 SOUNDING ROCKET  
3101 3108 3409  
BT BLACK BRANT SOUNDING ROCKETS

# NASA THESAURUS (ALPHABETICAL LISTING)

#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
BLACK BRANT 2 SOUNDING ROCKET  
3101 3108  
BT BLACK BRANT SOUNDING ROCKETS  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
BLACK BRANT 3 SOUNDING ROCKET  
3101 3108  
BT BLACK BRANT SOUNDING ROCKETS  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
BLACK BRANT 4 SOUNDING ROCKET  
3101 3108  
BT BLACK BRANT SOUNDING ROCKETS  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
BLACK BRANT 5 SOUNDING ROCKET  
3101 3108 3409  
BT BLACK BRANT SOUNDING ROCKETS  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
BLACK BRANT SOUNDING ROCKETS  
3101 3108  
NT BLACK BRANT 1 SOUNDING ROCKET  
BLACK BRANT 2 SOUNDING ROCKET  
BLACK BRANT 3 SOUNDING ROCKET  
BLACK BRANT 4 SOUNDING ROCKET  
BLACK BRANT 5 SOUNDING ROCKET  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
BLACK KNIGHT ROCKET VEHICLE  
3103 3106  
UP BLACK ARROW LAUNCH VEHICLE  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES

BLACK SEA  
1305  
BT SEAS

BLACKBURN B-103 AIRCRAFT  
USE BUCCANEER AIRCRAFT

BLACKOUT  
0702 0705  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BLACKOUT (PHYSIOLOGY)  
BLACKOUT (PROPAGATION)  
BLACKOUT (PHYSIOLOGY)  
0404 0408 0502  
NT BLACKOUT PREVENTION  
BT #SYNCOPE  
#UNCONSCIOUSNESS  
RT ACCELERATION TOLERANCE  
BLACKOUT  
COMA

BLACKOUT (PROPAGATION)  
0702 0705  
UP IONOSPHERIC BLACKOUT  
RADIO BLACKOUT  
NT ATMOSPHERICS  
COSMIC NOISE  
DAWN CHORUS  
ELECTROMAGNETIC NOISE  
HISS  
IONOSPHERIC NOISE  
IONOSPHERICS  
POLAR RADIO BLACKOUT  
SHOT NOISE  
SUDDEN ENHANCEMENT OF ATMOSPHERICS  
THERMAL NOISE  
WHISTLERS  
BT #ELECTROMAGNETIC INTERFERENCE  
RADIO FREQUENCY INTERFERENCE  
RT BLACKOUT  
ELECTROMAGNETIC FIELDS  
#IONOSPHERIC DISTURBANCES  
PLASMA SHEATHS

# NASA THESAURUS (ALPHABETICAL LISTING)

#PLASMAS (PHYSICS)  
 RADIATION EFFECTS  
 RADIO COMMUNICATION  
 REENTRY COMMUNICATION  
 REENTRY EFFECTS  
 SOLAR ACTIVITY EFFECTS  
 X RAYS  
 BLACKOUT PREVENTION  
 0401 0502  
 BT ASTRONAUT PERFORMANCE  
 BLACKOUT (PHYSIOLOGY)  
 #HUMAN PERFORMANCE  
 #SYNCOPE  
 #UNCONSCIOUSNESS  
 RT ACCELERATION TOLERANCE  
 CORA  
 WEIGHTLESSNESS  
 BLADDER  
 0404  
 BT #ANATOMY  
 GENITOURINARY SYSTEM  
 ORGANS  
 #VISCERA  
 RT PROSTATE GLAND  
 UROLOGY  
 BLADDER MECHANICS  
 USE DIAPHRAGMS  
 BLADE TIPS  
 0104  
 BT TIPS  
 RT #AIRFOIL PROFILES  
 PROPELLER BLADES  
 ROTARY WINGS  
 ROTOR BLADES (TURBOMACHINERY)  
 WING TIPS  
 BLADES  
 0104 0409 0504 1504 2805  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #AIRFOILS  
 BLADES (CUTTERS)  
 COMPRESSOR BLADES  
 FINS  
 HYDROFOILS  
 PROPELLER BLADES  
 RIMS  
 ROTARY WINGS  
 ROTOR BLADES (TURBOMACHINERY)  
 STATOR BLADES  
 TURBINE BLADES  
 TURBOMACHINE BLADES  
 #VANES  
 BLADES (CUTTERS)  
 1502 1504  
 NT RAZOR BLADES  
 BT #CUTTERS  
 RT BLADES  
 BLANKETS  
 1002 1108 1504 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BEDDING EQUIPMENT  
 CLOUD COVER  
 #CONTROLLED ATMOSPHERES  
 BLANKING  
 0202  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BLANKING (CUTTING)  
 BLANKING (CUTTING)  
 1504 1507  
 BT CUTTING  
 #FORMING TECHNIQUES  
 PRESSING (FORMING)  
 RT BLANKING  
 SHEARING  
 STAMPING  
 BLANKS  
 1504 1703 3204  
 RT AMMUNITION  
 BRIQUETS  
 FORMS (PAPER)  
 PREFORMS  
 BLASIUS EQUATION  
 1202 1902  
 BT #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 REAL VARIABLES  
 RT BLASIUS FLOW

BOUNDARY LAYER FLOW  
 FALKNER-SKAN EQUATION  
 FLAT PLATES  
 PRANDTL-MEYER EXPANSION  
 BLASIUS FLOW  
 1202  
 BT #FLUID FLOW  
 LAMINAR FLOW  
 UNIFORM FLOW  
 RT BLASIUS EQUATION  
 FLAT PLATES  
 HEAD FLOW  
 TOLLMEIN-SCHLICHTING WAVES  
 TURBULENT FLOW  
 TWO DIMENSIONAL FLOW  
 WEDGE FLOW  
 BLAST DEFLECTORS  
 2806  
 BT DEFLECTORS  
 RT BAPFLES  
 DIVERTERS  
 FLAME DEFLECTORS  
 #SHIELDING  
 BLAST LOADS  
 0101 3203  
 BT #AERODYNAMIC FORCES  
 AERODYNAMIC LOADS  
 DYNAMIC LOADS  
 #LOADS (FORCES)  
 SHOCK LOADS  
 TRANSIENT LOADS  
 RT AERIAL EXPLOSIONS  
 DYNAMIC PRESSURE  
 #EXPLOSIONS  
 GUST LOADS  
 IMPACT LOADS  
 OVERPRESSURE  
 #PRESSURE  
 PRESSURE PULSES  
 RIEMANN WAVES  
 SHOCK WAVES  
 WAVE RESISTANCE  
 BLASTOFF  
 USE ROCKET LAUNCHING  
 BLASTS  
 2808 3102 3201 3302 3401  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT EXHAUST GASES  
 #EXPLOSIONS  
 JET BLAST EFFECTS  
 SHOCK WAVES  
 SOUND WAVES  
 BLATON FORMULA  
 1202 2003  
 BT AIR FLOW  
 ANTICYCLONES  
 CYCLONES  
 LAMINAR FLOW  
 #METEOROLOGY  
 WIND VARIATIONS  
 BLATTIDAE  
 USE COCKROACHES  
 BLEACHING  
 0603 1504 1811  
 RT CHLORINATION  
 CLEANING  
 #FADING  
 BLEED-OFF  
 USE PRESSURE REDUCTION  
 BLEEDING  
 0101 0201 0303 0401 1103 1202 1502 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOUNDARY LAYER CONTROL  
 #FLUID MECHANICS  
 HEMORRHAGES  
 PRESSURE REDUCTION  
 BLENDS  
 USE #MIXTURES  
 BLIND LANDING  
 0203 1402  
 BT #LANDING  
 RT AIRCRAFT LANDING  
 APPROACH INDICATORS  
 AUTOMATIC LANDING CONTROL  
 INSTRUMENT APPROACH  
 INSTRUMENT FLIGHT RULES  
 INSTRUMENT LANDING SYSTEMS  
 LANDING INSTRUMENTS

BLOOD CIRCULATION  
 BLINDNESS  
 0404 0408  
 RT FLASH BLINDNESS  
 RT EYE DISEASES  
 OPTOMETRY  
 VISION  
 BLINDS  
 1103  
 RT #SHIELDING  
 SHUTTERS  
 BLISTERS  
 0405  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT INFECTIOUS DISEASES  
 #INJURIES  
 MUCOCCELES  
 PROTUBERANCES  
 RUPTURING  
 SKIN (ANATOMY)  
 VIRUSES  
 BLISTERS (PROTUBERANCES)  
 USE PROTUBERANCES  
 BLOCH BAND  
 2305 2307  
 RT ENERGY BANDS  
 BLOCKING  
 0303 0903 1002  
 UF OBSTRUCTING  
 RT ARRESTERS  
 CLOSING  
 CLOSURES  
 CONSTRAINTS  
 CONstrictIONS  
 CONTAINMENT  
 PLUGGING  
 PLUGS  
 PREVENTION  
 RETARDERS (DEVICES)  
 RETARDING  
 SEALING  
 SEALS (STOPPERS)  
 STOPPING  
 BLOCKS  
 0803  
 RT CUBES (MATHEMATICS)  
 PULLEYS  
 SLABS  
 BLOOD  
 0403  
 NT EOSINOPHILS  
 ERYTHROCYTES  
 LEUKOCYTES  
 LYMPHOCYTES  
 RETICULOCYTES  
 THROMBIN  
 THROMBOPLASTIN  
 WHITE BLOOD CELLS  
 BT #BODY FLUIDS  
 RT ANEMIAS  
 CAPILLARIES (ANATOMY)  
 CARBOXYHEMOGLOBIN TEST  
 CARDIOVASCULAR SYSTEM  
 #CIRCULATION  
 COAGULATION  
 HEART  
 HEMATOCRIT  
 HEMATOPOIESIS  
 HEMOGLOBIN  
 HEMORRHAGES  
 OXIMETRY  
 RHESUS FACTOR  
 TRANSFUSION  
 BLOOD CIRCULATION  
 0404 0408  
 NT BRAIN CIRCULATION  
 CARBOXYHEMOGLOBIN  
 CORONARY CIRCULATION  
 INTRACRANIAL CIRCULATION  
 INTRAVASCULAR SYSTEM  
 ISCHEMIA  
 OCULAR CIRCULATION  
 PULMONARY CIRCULATION  
 BT #CIRCULATION  
 RT ARTIFICIAL HEART VALVES  
 CIRCULATORY SYSTEM  
 CYANOSIS  
 DIASTOLE  
 ELECTROPLETHYSMOGRAPHY  
 HEMODYNAMIC RESPONSES  
 HEMODYNAMICS



# BLOOD COAGULATION

HYPERVOLEMIA  
HYPOVOLEMIA  
PHONOARTERIOGRAPHY  
RHEOENCEPHALOGRAPHY  
RHEOMETERS  
TOURNIQUETS  
VASCULAR SYSTEM

**BLOOD COAGULATION**  
0403 0404 0408  
BT COAGULATION  
RT CLOTTING  
HEMOSTATICS  
PLATELETS  
THROMBOCYTES  
THROMBOSIS

**BLOOD FLOW**  
0404 0408  
BT #FLUID FLOW  
RT CAPILLARY FLOW  
DIASTOLE  
SYSTOLE  
TOURNIQUETS

**BLOOD GROUPS**  
0404 0408  
RT PLATELETS

**BLOOD PLASMA**  
0403 0404  
RT #BODY FLUIDS  
CORPUSCLES

**BLOOD PRESSURE**  
0404 0405 0408  
NT HYPERTENSION  
HYPOTENSION  
SYSTOLIC PRESSURE  
BT #PRESSURE  
RT CRAMPTON TEST  
DIASTOLE  
HEMODYNAMIC RESPONSES  
MANOMETERS  
OPHTHALMODYNAMOMETRY  
ORTHOSTATIC TOLERANCE  
SPHYGMOGRAPHY  
SYSTOLE  
TENSION

**BLOOD VESSELS**  
0403 0405  
NT AORTA  
ARTERIES  
CAPILLARIES (ANATOMY)  
GLOMERULUS  
VEINS  
BT #ANATOMY  
CARDIOVASCULAR SYSTEM  
CIRCULATORY SYSTEM  
VASCULAR SYSTEM  
RT CAROTID SINUS REFLEX  
CATHETERIZATION  
EMBOLISMS  
FAT EMBOLISMS  
VASOCONSTRICTION  
VASODILATION  
VESSELS

**BLOWDOWN WIND TUNNELS**  
1110  
BT #TEST FACILITIES  
WIND TUNNELS  
RT HOTSHOT WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
LOW DENSITY RESEARCH  
LOW SPEED WIND TUNNELS  
SUBSONIC WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
TRANSONIC WIND TUNNELS

**BLOWERS**  
1504  
RT AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
AIR DUCTS  
BLOWING  
CENTRIFUGAL COMPRESSORS  
COMPRESSORS  
COOLING SYSTEMS  
DUCTED FANS  
EXHAUST SYSTEMS  
FANS  
IMPELLERS  
INJECTORS  
MATERIALS HANDLING  
MIXERS  
NOZZLES  
REFRIGERATING MACHINERY  
SEALING

SPRAYERS  
SUPERCHARGERS  
#TURBOMACHINERY  
VENTILATION  
VENTILATION FANS  
VENTILATORS

**BLOWING**  
0101 3407  
RT AERATION  
AGITATION  
BLOWERS  
BOUNDARY LAYER CONTROL  
#CIRCULATION  
COMPRESSING  
ENTRAINMENT  
EXHAUSTING  
FORCED CONVECTION  
#INJECTION  
MIXING  
PUMPING  
SPRAYING  
#WIND (METEOROLOGY)

**BLOWOUTS**  
0203  
BT TIRES  
BLUE GOOSE MISSILE  
3101  
BT DECOYS  
#MISSILES  
SURFACE TO AIR MISSILES  
BOOSTER ROCKET ENGINES  
#COUNTERMEASURES  
J-85 ENGINE  
SOLID PROPELLANT ROCKET ENGINES

**BLUE GREEN ALGAE**  
0404 0407 0409  
UF CYANOPHYTA  
NT #NOSTOC  
BT ALGAE  
#PLANTS (BOTANY)  
THERMOPHILIC PLANTS

**BLUE SCOUT JR ROCKET VEHICLE**  
3106 3401  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
STANDARD LAUNCH VEHICLES

**BLUE SCOUT ROCKET VEHICLE**  
3106 3401  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT ALGOL ENGINE  
SOLID PROPELLANT ROCKET ENGINES  
X-248 ENGINE  
X-254 ENGINE  
XM-33 ENGINE

**BLUE STEEL MISSILE**  
3101 3401  
BT #MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES

**BLUE STREAK LAUNCH VEHICLE**  
3103 3409  
BT #LAUNCH VEHICLES  
#ROCKET VEHICLES  
RT ELDO LAUNCH VEHICLE  
LIQUID PROPELLANT ROCKET ENGINES

**BLUE STREAK MISSILE**  
3101 3409  
BT BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC MISSILES  
#MISSILES  
#ROCKET VEHICLES  
SURFACE TO SURFACE MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES

**BLUEPRINTS**  
3404 3406  
BT DRAWINGS  
ENGINEERING DRAWINGS  
RT LAYOUTS  
REPRODUCTION (COPYING)

**BLUFF BODIES**  
0102 3105  
RT BLUNT BODIES  
BODIES  
DUCTED BODIES  
#FOREBODIES  
#LIFTING BODIES  
#REENTRY VEHICLES  
ROSKO PREDICTION

# NASA THESAURUS (ALPHABETICAL LISTING)

**BLUFFS (LANDFORMS)**  
USE CLIFFS

**BLUNT BODIES**  
0101 0102 1202 3105  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
AXISYMMETRIC BODIES  
BLUFF BODIES  
BODIES  
DUCTED BODIES  
#FOREBODIES  
MISSILE BODIES  
NOSE CONES  
#SYMMETRICAL BODIES

**BLUNTNESS**  
USE ELLIPTICITY

**BLURRING**  
1407 2306 2310  
RT ABERRATION  
#RESOLUTION  
SPATIAL FILTERING

**BNEWS**  
USE BALLISTIC MISSILE EARLY WARNING SYSTEM

**BO-105 HELICOPTER**  
0206  
UF BOLKOW BO-105 HELICOPTER  
BT BOLKOW AIRCRAFT  
HELICOPTERS  
ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT

**BO P-310 HELICOPTER**  
0206  
UF BOLKOW BO P-310 HELICOPTER  
BT BOLKOW AIRCRAFT  
HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT

**BOARDS (PAPER)**  
1805 3404 3406 3409  
RT CONSTRUCTION MATERIALS  
PAPERS

**BOATS**  
2103 3202 3401  
UF HYDROFOIL BOATS  
NT LIFEBOATS  
BT #SURFACE VEHICLES  
#WATER VEHICLES  
RT AMPHIBIOUS VEHICLES  
INFLATABLE STRUCTURES  
KEELS  
MILITARY VEHICLES  
RESEARCH VEHICLES  
SHIPS  
UNDERWATER VEHICLES

**BOATTAILS**  
0102 2806 3202  
RT AFTERBODIES  
SKIRTS  
TAIL ASSEMBLIES

**BODIES**  
0103 0207 3101 3103 3105 3106 3107 3110  
(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)  
RT AFTERBODIES  
AXISYMMETRIC BODIES  
BLUFF BODIES  
BLUNT BODIES  
BODIES OF REVOLUTION  
#CELESTIAL BODIES  
CENTERBODIES  
DUCTED BODIES  
ELASTIC BODIES  
PINNED BODIES  
FLEXIBLE BODIES  
FOREIGN BODIES  
HUMAN BODY  
LENTICULAR BODIES  
#LIFTING BODIES  
MANEUVERABLE REENTRY BODIES  
MISSILE BODIES  
#PLANFORMS  
PYRAMIDAL BODIES  
#REENTRY VEHICLES  
#ROTATING BODIES  
SLENDER BODIES  
SOLIDS  
STREAMLINED BODIES  
#SYMMETRICAL BODIES  
TOWED BODIES

# NASA THESAURUS (ALPHABETICAL LISTING)

TWO DIMENSIONAL BODIES  
 BODIES OF REVOLUTION  
 0102 1902  
 NT CELESTIAL SPHERE  
 CONICAL BODIES  
 CYLINDRICAL BODIES  
 PARABOLIC BODIES  
 POINCARÉ SPHERES  
 ROTATING CYLINDERS  
 ROTATING SPHERES  
 SLENDER CONES  
 SPHERES  
 TORUSES  
 BT #SYMMETRICAL BODIES  
 RT AERODYNAMIC CONFIGURATIONS  
 AERODYNAMICS  
 AXES OF ROTATION  
 AXISYMMETRIC BODIES  
 BODIES  
 #CONES  
 DISKS (SHAPES)  
 ELLIPSOIDS  
 FINNED BODIES  
 #GEOMETRY  
 HEMISPHERES  
 HEMISPHERICAL SHELLS  
 OGIVES  
 RINGS  
 SPHERICAL SHELLS  
 STREAMLINED BODIES  
 BODY CENTERED CUBIC LATTICES  
 2601 3203  
 UF BCC LATTICES  
 BT #CRYSTAL LATTICES  
 CUBIC LATTICES  
 RT CLOSE PACKED LATTICES  
 #CRYSTALS  
 FACE CENTERED CUBIC LATTICES  
 BODY COMPOSITION (BIOLOGY)  
 0403 0404  
 BT #COMPOSITION (PROPERTY)  
 PHYSIOLOGY  
 RT CHEMICAL COMPOSITION  
 #BODY FLUIDS  
 0403 0404  
 NT BLOOD  
 CEREBROSPINAL FLUID  
 ENDOLYMPH  
 EOSINOPHILS  
 ERYTHROCYTES  
 LEUKOCYTES  
 LYMPH  
 LYMPHOCYTES  
 MUCOUS  
 RETICULOCYTES  
 SALIVA  
 SWEAT  
 THROMBIN  
 THROMBOPLASTIN  
 URINE  
 WHITE BLOOD CELLS  
 RT BLOOD PLASMA  
 DIURESIS  
 EDEMA  
 FLUIDS  
 PERSPIRATION  
 #SECRECTIONS  
 WATER  
 WATER BALANCE  
 BODY KINEMATICS  
 0101 0201 0401 0408 0504 0506 1202  
 2308 3203  
 BT KINEMATICS  
 RT ACCELERATION (PHYSICS)  
 KINETICS  
 PARTICLE THEORY  
 VELOCITY  
 BODY MEASUREMENT (BIOLOGY)  
 0404 0501 1406  
 (LIMITED TO BIOLOGICAL APPLICATIONS  
 --FOR MEASUREMENT OF NON-BIOLOGICAL  
 BODIES USE SIZE DETERMINATION)  
 NT ANTHROPOMETRY  
 ELECTROPLETHYSMOGRAPHY  
 BT #BIOENGINEERING  
 BIOMETRICS  
 RT BIOMEDICAL DATA  
 ELECTROCARDIOGRAPHY  
 ELECTROENCEPHALOGRAPHY  
 ELECTROPHYSIOLOGY  
 ENGINEERING  
 HUMAN BODY

HUMAN FACTORS ENGINEERING  
 SIZE DETERMINATION  
 SIZING  
 BODY SIZE (BIOLOGY)  
 0404  
 RT ANTHROPOMETRY  
 BODY SWAY TEST  
 0401 0408 0502  
 BT PHYSIOLOGICAL TESTS  
 RT EQUILIBRIUM  
 VERTICAL PERCEPTION  
 VESTIBULAR TESTS  
 BODY TEMPERATURE  
 0404 0408 0508  
 (LIMITED TO TEMPERATURE OF BIOLOGICAL  
 BODIES)  
 BT #TEMPERATURE  
 RT COLD TOLERANCE  
 HEAT TOLERANCE  
 HOMEOSTASIS  
 HOMEOTHERMS  
 HUMIDITY  
 HYPERTHERMIA  
 HYPOTHERMIA  
 PERSPIRATION  
 POIKILOthermia  
 SHIVERING  
 THERMORECEPTORS  
 THERMOREGULATION  
 VASOCONSTRICTION  
 VASODILATION  
 BODY TEMPERATURE (NON-BIOLOGICAL)  
 USE #TEMPERATURE  
 BODY TEMPERATURE REGULATION  
 USE THERMOREGULATION  
 BODY VOLUME (BIOLOGY)  
 0404 0408  
 BT VOLUME  
 BODY WEIGHT  
 0404  
 BT WEIGHT (MASS)  
 RT WEIGHTLESSNESS  
 BODY-WING AND TAIL CONFIGURATIONS  
 0102 0104  
 RT AERODYNAMIC CONFIGURATIONS  
 FUSELAGES  
 TAIL ASSEMBLIES  
 WINGS  
 BOEING AIRCRAFT  
 0204 0207  
 UF VERTOL MILITARY HELICOPTERS  
 NT B-47 AIRCRAFT  
 B-50 AIRCRAFT  
 B-52 AIRCRAFT  
 BOEING 707 AIRCRAFT  
 BOEING 720 AIRCRAFT  
 BOEING 727 AIRCRAFT  
 BOEING 733 AIRCRAFT  
 BOEING 737 AIRCRAFT  
 BOEING 747 AIRCRAFT  
 BOEING 7207 AIRCRAFT  
 C-97 AIRCRAFT  
 C-135 AIRCRAFT  
 CH-21 HELICOPTER  
 CH-46 HELICOPTER  
 CH-47 HELICOPTER  
 H-25 HELICOPTER  
 VZ-2 AIRCRAFT  
 X-20 AIRCRAFT  
 BOEING 707 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
 BOEING 720 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
 BOEING 727 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT

## BOILING WATER REACTORS

PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
 BOEING 733 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 #SUPERSONIC AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
 RT VARIABLE SWEEP WINGS  
 BOEING 737 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
 BOEING 747 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 RT AIRCRAFT  
 TURBOPAN ENGINES  
 BOEING 7207 AIRCRAFT  
 0204  
 BT BOEING AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 #JET AIRCRAFT  
 PASSENGER AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 SUPERSONIC COMMERCIAL AIR TRANSPORT  
 SUPERSONIC TRANSPORTS  
 #TRANSPORT AIRCRAFT  
 RT AIRCRAFT  
 BOGOLIUBOV THEORY  
 1203 2502 3006  
 RT BBGKY HIERARCHY  
 THEORIES  
 BOHR MAGNETON  
 2311 2403  
 BT #CONSTANTS  
 RT ELECTRONS  
 MAGNETIC MOMENTS  
 BOHR THEORY  
 1411 2401  
 BT #NUCLEAR PHYSICS  
 QUANTUM THEORY  
 #THEORETICAL PHYSICS  
 RT ELECTRON TRANSITIONS  
 LINE SPECTRA  
 THEORIES  
 BOILER PLATE  
 1504  
 BT METAL PLATES  
 RT THICK WALLS  
 BOILERS  
 1504  
 UF STEAM GENERATORS  
 BT #HEATING EQUIPMENT  
 RT EXTERNAL COMBUSTION ENGINES  
 FURNACES  
 GENERATORS  
 HEAT BALANCE  
 PRESSURE VESSELS  
 STEAM  
 VAPORIZERS  
 BOILING  
 0504 0602 1202 1504 2303 2404 3304  
 UF EBULLITION  
 NT FILM BOILING  
 LEIDENFROST PHENOMENON  
 NUCLEATE BOILING  
 BT #PHASE TRANSFORMATIONS  
 VAPORIZING  
 RT EFFERVESCENCE  
 EVAPORATION  
 EVOLUTION (LIBERATION)  
 HEAT TRANSFER  
 #HEATING  
 BOILING WATER REACTORS  
 2204 2405  
 NT BORAX 5 REACTOR  
 EXPERIMENTAL BOILING WATER REACTORS  
 HALDEN BOILING WATER REACTOR

# BOLIDES

LOS ALAMOS WATER BOILER REACTOR  
 PATHFINDER NUCLEAR REACTOR  
 SENN REACTOR  
 SPERT REACTORS  
 ZERO POWER REACTOR 7  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 WATER COOLED REACTORS  
 RT NUCLEAR POWER REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS

# BOLIDES

3005  
 NT CYRILLID METEOROID  
 BT #CELESTIAL BODIES  
 METEOROID  
 RT #ATMOSPHERIC ENTRY  
 ATMOSPHERIC HEATING  
 FIREBALLS  
 METEOR TRAILS  
 METEORITES  
 METEOROID SHOWERS  
 PRIBRAM METEORITE

# BOLIVA

1305  
 RT NATIONS  
 SOUTH AMERICA

# BOLKOW AIRCRAFT

0201 0206  
 NT BO-105 HELICOPTER  
 BO P-310 HELICOPTER  
 BOLKOW 207 AIRCRAFT  
 BS-210 AIRCRAFT  
 RT AIRCRAFT  
 BOLKOW 207 AIRCRAFT  
 0201 0204  
 BT BOLKOW AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 BOLKOW BO-105 HELICOPTER  
 USE BO-105 HELICOPTER  
 BOLKOW BO P-310 HELICOPTER  
 USE BO P-310 HELICOPTER  
 BOLKOW-SIEBEL BS-210 AIRCRAFT  
 USE BS-210 AIRCRAFT

# BOLOGRAMS

USE BOLOMETERS

# BOLONETERS

0411 0605 1406 2402 2902  
 UF BOLOGRAMS  
 BT #MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
 RT DICKE RADIOMETERS  
 ELECTRICAL MEASUREMENT  
 HEAT MEASUREMENT  
 PHOTONETERS  
 POTENTIOMETERS (INSTRUMENTS)  
 RADIATION PYROMETERS  
 RADIOMETERS  
 RESISTANCE THERMOMETERS  
 TEMPERATURE MEASUREMENT  
 TEMPERATURE MEASURING INSTRUMENTS

# BOLTS

1504  
 NT ROCK BOLTS  
 TIEBOLTS  
 BT #FASTENERS  
 RT ANCHORS (FASTENERS)  
 COUPLINGS  
 HOLDERS  
 NUTS (FASTENERS)  
 SCREWS  
 STUDS (STRUCTURAL MEMBERS)  
 THREADS

# BOLTZMANN DISTRIBUTION

1203 1902 1905 2308 2311 2404  
 BT #DISTRIBUTION (PROPERTY)  
 RT ATMOSPHERIC DENSITY  
 ATMOSPHERIC DIFFUSION  
 BOLTZMANN-VLASOV EQUATION  
 #KINETIC THEORY  
 STATISTICAL MECHANICS  
 TWO FLUID MODELS

# BOLTZMANN TRANSPORT EQUATION

1202 1203 1903 1905 2308 2403 2502  
 UP TRANSPORT EQUATION  
 RT BBGY HIERARCHY  
 CHAPMAN-ENSKOG THEORY  
 EQUATIONS  
 FOKKER-PLANCK EQUATION  
 HYDRODYNAMIC EQUATIONS  
 #KINETIC THEORY

PARTICLE DIFFUSION  
 STATISTICAL MECHANICS  
 #TRANSPORT PROPERTIES  
 TRANSPORT THEORY  
 BOLTZMANN-VLASOV EQUATION  
 1903 2502  
 RT BOLTZMANN DISTRIBUTION  
 HIGH TEMPERATURE PLASMAS  
 MAXWELL EQUATION  
 PARTIAL DIFFERENTIAL EQUATIONS  
 WAVE EQUATIONS

# BOLZA PROBLEMS

1902

RT #OPTIMIZATION

PROBLEMS

# BOMARC A MISSILE

3101 3401

BT BOMARC MISSILES

#MISSILES

SURFACE TO AIR MISSILES

RT LIQUID PROPELLANT ROCKET ENGINES

LR-59-AJ-13 ENGINE

SOLID PROPELLANT ROCKET ENGINES

# BOMARC B MISSILE

3101 3401

BT BOMARC MISSILES

#MISSILES

SURFACE TO AIR MISSILES

RT LIQUID PROPELLANT ROCKET ENGINES

SOLID PROPELLANT ROCKET ENGINES

# BOMARC MISSILES

3101 3401

NT BOMARC A MISSILE

BOMARC B MISSILE

BT ANTIAIRCRAFT MISSILES

#MISSILES

SURFACE TO AIR MISSILES

# BOMB CALORIMETERS

1408

BT CALORIMETERS

#MEASURING INSTRUMENTS

RT DROP CALORIMETERS

FLAME CALORIMETERS

HEAT MEASUREMENT

HIGH TEMPERATURE TESTS

TEMPERATURE MEASURING INSTRUMENTS

# BOMBARDMENT

2401 2405 2901 3005 3304 3401

(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT HYPERVELOCITY PROJECTILES

#IRRADIATION

METEORITIC DAMAGE

SPUTTERING

# BOMBER AIRCRAFT

0207 3401

NT B-26 AIRCRAFT

B-47 AIRCRAFT

B-50 AIRCRAFT

B-52 AIRCRAFT

B-57 AIRCRAFT

B-58 AIRCRAFT

B-66 AIRCRAFT

B-70 AIRCRAFT

IL-28 AIRCRAFT

SHACKLETON BOMBER

VALIANT AIRCRAFT

VICTOR MK-1 AIRCRAFT

VULCAN AIRCRAFT

RT ANTISUBMARINE WARFARE AIRCRAFT

ATTACK AIRCRAFT

BOMBING EQUIPMENT

#JET AIRCRAFT

MILITARY AIRCRAFT

RB-50 AIRCRAFT

TANKER AIRCRAFT

TRAINING AIRCRAFT

VAMPIRE MK 35 AIRCRAFT

# BOMBING EQUIPMENT

0207 3401

BT AIRCRAFT EQUIPMENT

BOMBER AIRCRAFT

BOMBS (ORDNANCE)

EQUIPMENT

FIRE CONTROL

#ONBOARD EQUIPMENT

# BOMBS

2205 3302 3401

(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

# NASA THESAURUS (ALPHABETICAL LISTING)

RT BOMBS (ORDNANCE)  
 PRESSURE GAGES  
 SAMPLERS  
 BOMBS (ORDNANCE)  
 3401

BT #EXPLOSIVE DEVICES

RT AMMUNITION

BOMBING EQUIPMENT

BOMBS

EXPLOSIVES

INCENDIARY AMMUNITION

#MISSILES

NUCLEAR WEAPONS

PROJECTILES

PIROTECHNICS

SHAPED CHARGES

TORPEDOES

WARHEADS

BOMBS (PRESSURE GAGES)

USE PRESSURE GAGES

BOMBS (SAMPLERS)

USE SAMPLERS

# BOWANZA AIRCRAFT

USE C-35 AIRCRAFT

# #BONDING

0603 1501 1507

NT ADHESIVE BONDING

CERAMIC BONDING

EXPLOSIVE WELDING

METAL BONDING

METAL-METAL BONDING

RESIN BONDING

RT ADHESION

ADHESION TESTS

BINDING

CEMENTATION

CHEMICAL BONDS

COHESION

COLD WELDING

DIFFUSION WELDING

JOINING

#JOINTS (JUNCTIONS)

LAMINATES

SEALING

SOLDERING

#WELDING

# BONDOC METEORITE

3005

BT ACHONDrites

#CELESTIAL BODIES

METEORITES

STONY METEORITES

# BONE MARROW

0404

RT CANCER

ERYTHROCYTES

LEUKEMIAS

# BONES

0404

NT CARTILAGE

CEREBRUM

CRANIUM

FEMUR

INTRACRANIAL CAVITY

MARROW

MASTOIDS

PELVIS

SCAPULA

SCIATIC REGION

SKULL

STERNUM

TIBIA

ULNA

VERTEBRAE

BT #ANATOMY

MUSCULOSKELETAL SYSTEM

RT ARTHRITIS

CALCIFICATION

CHIN

CONNECTIVE TISSUE

JOINTS (ANATOMY)

LABELLA

SPINAL CORD

SPLINTS

VERTEBRAL COLUMN

# BOOLEAN ALGEBRA

0802 1902

NT BOOLEAN FUNCTIONS

BT LATTICES (MATHEMATICS)

#MATHEMATICAL LOGIC

RT #ALGEBRA

CONJUNCTION

# NASA THESAURUS (ALPHABETICAL LISTING)

LOGIC  
 SET THEORY  
 SWITCHING THEORY  
 TRANSISTOR LOGIC  
 UNIONS  
 BOOLEAN FUNCTIONS  
 0802 1902  
 UP SWITCHING FUNCTIONS  
 BT BOOLEAN ALGEBRA  
 #FUNCTIONS (MATHEMATICS)  
 LATTICES (MATHEMATICS)  
 #MATHEMATICAL LOGIC  
 BOOM  
 0203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOOMS (EQUIPMENT)  
 SONIC BOOMS  
 TAIL ASSEMBLIES  
 BOOMS (EQUIPMENT)  
 1103  
 BT POSITIONING DEVICES (MACHINERY)  
 RT BOOM  
 CRANES  
 BOOST  
 USE ACCELERATION (PHYSICS)  
 BOOSTER RECOVERY  
 1102 3102  
 RT BOOSTER ROCKET ENGINES  
 RECOVERABLE LAUNCH VEHICL.  
 RECOVERY  
 RECOVERY PARACHUTES  
 SPACECRAFT RECOVERY  
 BOOSTER ROCKET ENGINES  
 2808 3103 3106 3110  
 UP ROCKET BOOSTERS  
 NT AJ-10 ENGINE  
 ALGOL ENGINE  
 H-1 ENGINE  
 LR-59-AJ-13 ENGINE  
 LR-87-AJ-3 ENGINE  
 LR-87-AJ-5 ENGINE  
 M-1 ENGINE  
 M-55 ENGINE  
 MA-2 ENGINE  
 MA-3 ENGINE  
 MA-5 ENGINE  
 NIKE BOOSTER ROCKET ENGINES  
 P-1 ENGINE  
 ROCKET ENGINE 2KS-36250  
 ROCKET ENGINE 9KS-11000  
 ROCKET ENGINE 15KS-25000  
 TU-122 ENGINE  
 TX-135 ENGINE  
 Y-405 ENGINE  
 BT #ENGINES  
 ROCKET ENGINES  
 RT BLUE GOOSE MISSILE  
 BOOSTER RECOVERY  
 BOOSTER ROCKETS  
 BOOSTERS  
 BURNOUT  
 DUCTED ROCKET ENGINES  
 F-1 ROCKET ENGINE  
 HYBRID PROPELLANT ROCKET ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JUNO 5 LAUNCH VEHICLE  
 #LAUNCH VEHICLES  
 LIQUID PROPELLANT ROCKET ENGINES  
 MACE MISSILES  
 NUCLEAR ENGINE FOR ROCKET VEHICLES  
 NUCLEAR ROCKET ENGINES  
 RECOVERABLE SPACECRAFT  
 SOLID PROPELLANT ROCKET ENGINES  
 STAGE SEPARATION  
 SUSTAINER ROCKET ENGINES  
 TURBOROCKET ENGINES  
 TX-354 ENGINE  
 BOOSTER ROCKETS  
 2808 3103 3106  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOOSTER ROCKET ENGINES  
 #LAUNCH VEHICLES  
 BOOSTERS  
 2808 3103 3106  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #AMPLIFIERS

BOOSTER ROCKET ENGINES  
 BOOSTERS (EXPLOSIVES)  
 #LAUNCH VEHICLES  
 SCOUT PROJECT  
 TITAN PROJECT  
 BOOSTERS (EXPLOSIVES)  
 3303  
 BT #EXPLOSIVE DEVICES  
 #IGNITERS  
 INITIATORS (EXPLOSIVES)  
 RT BOOSTERS  
 EXPLODING WIRES  
 BOOSTGLIDE VEHICLES  
 0205 2802 2808  
 NT X-20 AIRCRAFT  
 BT #GLIDERS  
 #REENTRY VEHICLES  
 AEROSPACEPLANES  
 AIRCRAFT  
 ASTRO VEHICLE  
 ASTROPLANE  
 GLIDING  
 HYPERSONIC AIRCRAFT  
 HYPERSONIC GLIDERS  
 LIFTING REENTRY VEHICLES  
 #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 ROCKET PLANES  
 SOTS (FOOTWEAR)  
 0508  
 BT #CLOTHING  
 RT SHOES  
 BORAL  
 1703 1704  
 BT #COMPOSITE MATERIALS  
 #COMPOSITE STRUCTURES  
 LAMINATES  
 RT ALUMINUM  
 BORON CARBIDES  
 RADIATION SHIELDING  
 BORANES  
 0603 1804  
 NT CARBORANE  
 HYDRAZINE BORANE  
 PENTABORANES  
 BT #BORON COMPOUNDS  
 BORON HYDRIDES  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 RT BOROHYDRIDES  
 BORATES  
 0603 1804  
 NT LITHIUM BORATES  
 BT #BORON COMPOUNDS  
 RT BORIC ACIDS  
 OXYGEN COMPOUNDS  
 BORAX 5 REACTOR  
 2204 3404  
 BT BOILING WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 WATER MODERATED REACTORS  
 BORDERS  
 3403  
 RT #BOUNDARIES  
 RIMS  
 BORDONI PEAKS  
 0601 2603  
 RT RESONANT FREQUENCIES  
 STRESS RELAXATION  
 BOREDOM  
 0408 0410  
 RT DETACHMENT  
 HUMAN BEHAVIOR  
 HUMAN REACTIONS  
 LETHARGY  
 MONOTONY  
 #PSYCHOLOGICAL EFFECTS  
 #PSYCHOLOGY  
 SPACE FLIGHT STRESS  
 BOREL SETS  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 #MATHEMATICAL LOGIC  
 MEASURE AND INTEGRATION  
 REAL VARIABLES  
 SET THEORY  
 RT PROBABILITY THEORY  
 BORES  
 USE CAVITIES

## #BORON COMPOUNDS

BORESCOPES  
 USE ENDOSCOPES  
 BORESIGHTS  
 0705 0901  
 RT DIRECTIONAL ANTENNAS  
 OPTICAL TRACKING  
 BORIC ACIDS  
 0603 1804  
 BT #ACIDS  
 #BORON COMPOUNDS  
 RT BORATES  
 BORIDES  
 0603 1804  
 NT CHROMIUM BORIDES  
 TITANIUM BORIDES  
 BT #BORON COMPOUNDS  
 RT INTERMETALLICS  
 BORING MACHINES  
 1504  
 BT MACHINE TOOLS  
 #TOOLS  
 RT DRILLS  
 BORN APPROXIMATION  
 1902 2308 2311 2401 2404  
 UP BORN-MAYER EQUATION  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT QUANTUM MECHANICS  
 SCATTERING CROSS SECTIONS  
 BORN-IMPULSED THEORY  
 2402 2403  
 RT ELECTRODYNAMICS  
 ELECTROSTATICS  
 MAXWELL EQUATION  
 NONLINEAR EQUATIONS  
 THEORIES  
 BORN-MAYER EQUATION  
 USE BORN APPROXIMATION  
 BORN-OPPENHEIMER APPROXIMATION  
 2401 2404  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT FRANCK-CONDON PRINCIPLE  
 BOROHYDRIDES  
 0603 1804  
 NT ALUMINUM BOROHYDRIDES  
 BERYLLIUM BOROHYDRIDES  
 BT #BORON COMPOUNDS  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 RT BORANES  
 BORON HYDRIDES  
 BORON  
 0603 1807  
 NT BORON ISOTOPES  
 BORON 10  
 BT #CHEMICAL ELEMENTS  
 METALLOIDS  
 BORON ALLOYS  
 1701 1704  
 BT #ALLOYS  
 BORON CARBIDES  
 0603 1804  
 BT #BORON COMPOUNDS  
 CARBIDES  
 #CARBON COMPOUNDS  
 RT BORAL  
 BORON CHLORIDES  
 0603 1804  
 BT #BORON COMPOUNDS  
 CHLORIDES  
 CHLORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 #BORON COMPOUNDS  
 0603 1804 1808  
 NT ALUMINUM BOROHYDRIDES  
 BERYLLIUM BOROHYDRIDES  
 BORANES  
 BORATES  
 BORIC ACIDS  
 BORIDES  
 BOROHYDRIDES  
 BORON CARBIDES  
 BORON CHLORIDES  
 BORON FLUORIDES  
 BORON HYDRIDES  
 BORON NITRIDES  
 BORON OXIDES  
 BORON PHOSPHIDES  
 CARBORANE  
 CHROMIUM BORIDES

## BORON FLUORIDES

DIBORANE  
 HYDRAZINE BORANE  
 LITHIUM BORATES  
 NONABORANE  
 ORGANIC BORON COMPOUNDS  
 PENTABORANES  
 TITANIUM BORIDES  
 TOURMALINE  
 RT GROUP 3A COMPOUNDS  
 HIGH ENERGY FUELS  
 METAL FUELS  
 METAL PROPELLANTS  
 BORON FLUORIDES  
 0603 1804  
 UP BORON TRIFLUORIDE  
 BT #BORON COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 BORON HYDRIDES  
 0603 1804  
 NT ALUMINUM BOROHYDRIDES  
 BERYLLIUM BOROHYDRIDES  
 BORANES  
 CARBORANE  
 HYDRAZINE BORANE  
 PENTABORANES  
 BT #BORON COMPOUNDS  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 RT BOROHYDRIDES  
 BORON ISOTOPES  
 1807 2406  
 NT BORON 10  
 BT BORON  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 METALLOIDS  
 NUCLIDES  
 BORON NITRIDES  
 0603 1804  
 BT #BORON COMPOUNDS  
 NITRIDES  
 #NITROGEN COMPOUNDS  
 BORON OXIDES  
 0603 1804  
 BT #BORON COMPOUNDS  
 #CHALCOGENIDES  
 OXIDES  
 BORON PHOSPHIDES  
 0603 1804  
 BT #BORON COMPOUNDS  
 PHOSPHIDES  
 #PHOSPHORUS COMPOUNDS  
 BORON TRIFLUORIDE  
 USE BORON FLUORIDES  
 BORON 10  
 0603 1807 2406  
 BT BORON  
 BORON ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 METALLOIDS  
 NUCLIDES  
 BOROSILICATE GLASS  
 1801 1805  
 UP PYREX (TRADEMARK)  
 BT GLASS  
 RT GLASSWARE  
 SILICON DIOXIDE  
 BOSE-CHAUDHURI-BHOCQUENGHEM CODES  
 USE BCH CODES  
 BOSE-EINSTEIN STATISTICS  
 USE QUANTUM STATISTICS  
 BOSE GEOMETRY  
 1902  
 BT #GEOMETRY  
 BOSON FIELDS  
 2401 2403  
 RT FIELD THEORY (PHYSICS)  
 FIELDS  
 MESONS  
 BOSONS  
 1905 2401 2403  
 NT ALPHA PARTICLES  
 ETA-MESONS  
 KAONS  
 MESON RESONANCES  
 MESONS  
 PHOTONS  
 PIONS

BT ELEMENTARY PARTICLES  
 NUCLEAR PARTICLES  
 #PARTICLES  
 RT CHARGED PARTICLES  
 MESONS  
 QUANTUM STATISTICS  
 BOTANY  
 0404 0409  
 NT GEOBOTANY  
 RT AGRICULTURE  
 BIOGEOCHEMISTRY  
 BIOLOGY  
 FARM CROPS  
 FRUITS  
 LEGUMINOUS PLANTS  
 #PLANTS (BOTANY)  
 ZOOLOGY  
 BOTTLES  
 1502 1805 2501 2806 3203  
 RT CONTAINERS  
 FLASKS  
 GLASSWARE  
 #TANKS (CONTAINERS)  
 BOUGUER LAW  
 2306 2402  
 UP LAMBERT LAW  
 RT ABSORPTIVITY  
 BEER LAW  
 ELECTROMAGNETIC ABSORPTION  
 LAMBERT SURFACE  
 THERMOPLASTICITY  
 BOULES  
 1703 1805 3203  
 BT #CRYSTALS  
 RT SINGLE CRYSTALS  
 #BOUNDARIES  
 0101 1202 1305 1902  
 UP PERIPHERIES  
 NT FLUID BOUNDARIES  
 FREE BOUNDARIES  
 GAS-SOLID INTERFACES  
 GRAIN BOUNDARIES  
 JET BOUNDARIES  
 LIQUID-LIQUID INTERFACES  
 LIQUID-SOLID INTERFACES  
 LIQUID-VAPOR INTERFACES  
 RT AIRSPACE  
 BORDERS  
 CIRCUMFERENCES  
 DELINEATION  
 FENCES (BARRIERS)  
 #INTERFACES  
 #REGIONS  
 BOUNDARY LAYER COMBUSTION  
 0603 1202 3301  
 BT #COMBUSTION  
 RT COMBUSTIBLE FLOW  
 CONVECTIVE HEAT TRANSFER  
 DIFFUSION FLAMES  
 FLAME PROPAGATION  
 LAMINAR BOUNDARY LAYER  
 BOUNDARY LAYER CONTROL  
 0101 0102 0201 1201 1402  
 UP LAMINAR FLOW CONTROL  
 NT POROUS BOUNDARY LAYER CONTROL  
 RT AERODYNAMICS  
 AIRFOIL FENCES  
 BLEEDING  
 BLOWING  
 BOUNDARY LAYER FLOW  
 BOUNDARY LAYER STABILITY  
 BOUNDARY LAYER TRANSITION  
 BOUNDARY LAYERS  
 BUFFETING  
 CONTROL  
 #CONTROL SURFACES  
 #DRAG DEVICES  
 FLUID AMPLIFIERS  
 FLUTTER  
 JET CONTROL  
 LEADING EDGE SLATS  
 LIFT AUGMENTATION  
 LIFT DEVICES  
 SPOILERS  
 #TURBULENCE  
 VACUUM  
 VORTEX GENERATORS  
 WING SLOTS  
 X-21 AIRCRAFT  
 BOUNDARY LAYER FLOW  
 0101 1201 1202 1203 3303  
 NT BOUNDARY LAYER SEPARATION

## NASA THESAURUS (ALPHABETICAL LISTING)

REATTACHED FLOW  
 SECONDARY FLOW  
 SEPARATED FLOW  
 BT #FLUID FLOW  
 VISCOUS FLOW  
 RT ATMOSPHERIC BOUNDARY LAYER  
 BLASIUS EQUATION  
 BOUNDARY LAYER CONTROL  
 BOUNDARY LAYER STABILITY  
 CONVECTIVE HEAT TRANSFER  
 FLOW DISTRIBUTION  
 LIGHTHILL GAS MODEL  
 MAGNUS EFFECT  
 RECIRCULATIVE FLUID FLOW  
 REYNOLDS NUMBER  
 STAGNATION FLOW  
 TOLLMEIN-SCHLICHTING WAVES  
 WALL FLOW  
 BOUNDARY LAYER NOISE  
 USE AERODYNAMIC NOISE  
 BOUNDARY LAYERS  
 BOUNDARY LAYER SEPARATION  
 1201 1202  
 UP BREAKAWAY  
 FLOW SEPARATION  
 LAMINAR BOUNDARY LAYER SEPARATION  
 STALL  
 WING STALL  
 BT BOUNDARY LAYER FLOW  
 #FLUID FLOW  
 SEPARATED FLOW  
 VISCOUS FLOW  
 RT AERODYNAMIC STALLING  
 AIRSPEED  
 ANGLE OF ATTACK  
 CROCCO-LEE THEORY  
 DIFFUSERS  
 PALKNER-SKAN EQUATION  
 FLOW DISTRIBUTION  
 #INJECTION  
 KUTTA-JOUKOWSKI CONDITION  
 LIFT DRAG RATIO  
 REATTACHED FLOW  
 RECIRCULATIVE FLUID FLOW  
 REVERSED FLOW  
 ROTATING STALLS  
 SEPARATION  
 STAGNATION FLOW  
 STALLING  
 SWEEP ANGLE  
 VORTEX GENERATORS  
 ZERO LIFT  
 BOUNDARY LAYER STABILITY  
 1202  
 BT #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 FLOW CHARACTERISTICS  
 FLOW STABILITY  
 MOTION STABILITY  
 #STABILITY  
 RT AERODYNAMIC STABILITY  
 BACKWASH  
 BOUNDARY LAYER CONTROL  
 BOUNDARY LAYER FLOW  
 REYNOLDS NUMBER  
 BOUNDARY LAYER TRANSITION  
 0101 1202 1203  
 UP EKMAN LAYER  
 RT AIR CURRENTS  
 BOUNDARY LAYER CONTROL  
 BOUNDARY LAYERS  
 KNUDSEN FLOW  
 LAMINAR BOUNDARY LAYER  
 LAMINAR FLOW  
 MOLECULAR FLOW  
 REYNOLDS NUMBER  
 THREE DIMENSIONAL BOUNDARY LAYER  
 TOLLMEIN-SCHLICHTING WAVES  
 TRANSITION  
 TRANSITION FLOW  
 TRANSITION LAYERS  
 TRANSITION POINTS  
 #TURBULENCE  
 TURBULENT BOUNDARY LAYER  
 TURBULENT FLOW  
 BOUNDARY LAYERS  
 0101 1202  
 UP BOUNDARY LAYER NOISE  
 NT ATMOSPHERIC BOUNDARY LAYER  
 COMPRESSIBLE BOUNDARY LAYER  
 HYPERSONIC BOUNDARY LAYER  
 LAMINAR BOUNDARY LAYER

# NASA THESAURUS (ALPHABETICAL LISTING)

SUPERSONIC BOUNDARY LAYERS  
THERMAL BOUNDARY LAYER  
THREE DIMENSIONAL BOUNDARY LAYER  
TURBULENT BOUNDARY LAYER  
BOUNDARY LAYER CONTROL  
BOUNDARY LAYER TRANSITION  
CROCCO METHOD  
DRAFT  
DRAG  
FLUID BOUNDARIES  
#FLUID FLOW  
GAS-SOLID INTERFACES  
LAYERS  
LIQUID-LIQUID INTERFACES  
LIQUID-SOLID INTERFACES  
SHEAR LAYERS  
SURFACE LAYERS  
WALL PRESSURE  
BOUNDARY LUBRICATION  
1503  
BT LUBRICATION  
BOUNDARY VALUE PROBLEMS  
1902 1903 2311  
UF INITIAL VALUE PROBLEMS  
POINT MATCHING METHOD (MATHEMATICS)  
NT NEUMANN PROBLEM  
RT BESSEL FUNCTIONS  
DIFFERENTIAL EQUATIONS  
FINITE ELEMENT METHOD  
HALF PLANES  
HALF SPACES  
HANKEL FUNCTIONS  
LANE FUNCTIONS  
MATHIEU FUNCTION  
MONGE-AMPERE EQUATION  
PROBLEMS  
BOURDON TUBES  
1202 1408 1409  
BT PRESSURE SENSORS  
#TRANSDUCERS  
RT PRESSURE GAGES  
PRESSURE MEASUREMENTS  
TUBES  
BOUSSINESQ APPROXIMATION  
1202  
RT CONVECTION  
HEAT TRANSFER  
INCOMPRESSIBLE FLUIDS  
PERTURBATION THEORY  
THERMAL EXPANSION  
BOW SHOCK WAVES  
USE BOW WAVES  
SHOCK WAVES  
BOW WAVES  
0101 1202  
UF BOW SHOCK WAVES  
RT HYPERSONIC WAVES  
MACH CONES  
SHOCK WAVES  
#SURFACE WAVES  
BOWS  
0102 0202 1504 3202 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BENDING  
CAMBER  
#FOREBODIES  
HEAVING  
BOX BEAMS  
3202  
BT BEAMS (SUPPORTS)  
#STRUCTURAL MEMBERS  
RT BOXES  
CANTILEVER BEAMS  
GIRDERS  
RECTANGULAR BEAMS  
BOXES  
0202 1103 1502 1504 3203 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BOX BEAMS  
BOXES (CONTAINERS)  
BOXES (CONTAINERS)  
1103  
RT BOXES  
BUCKETS  
CASES (CONTAINERS)  
CONTAINERS  
PACKAGES

BRACKETS  
1504 1507 1703 1805 3202  
RT ANCHORS (FASTENERS)  
#FASTENERS  
FIXTURES  
HOLDERS  
MOUNTING  
BRADYCARDIA  
0401 0405 0408  
BT HEART RATE  
#RATES (PER TIME)  
SIGNS AND SYMPTOMS  
HEART DISEASES  
RT HEART DISEASES  
BRAGG ANGLE  
2402 2601  
BT ANGLES (GEOMETRY)  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT CRYSTALLOGRAPHY  
DIFFRACTION  
DIFFRACTION PATHS  
ELECTRON DIFFRACTION  
ISOTROPY  
ORIENTATION  
PHYSICAL PROPERTIES  
RADIOGRAPHY  
BRAIN  
0401 0404 0408 0410 0503  
NT BRAIN STEM  
CEREBELLUM  
CEREBRAL CORTEX  
CEREBRUM  
HIPPOCAMPUS  
BT #ANATOMY  
CENTRAL NERVOUS SYSTEM  
#NERVOUS SYSTEM  
RT BRAIN DAMAGE  
CEREBROSPINAL FLUID  
DIENTEPHALON  
ELECTROENCEPHALOGRAPHY  
ENCEPHALITIS  
HEAD (ANATOMY)  
HYPOTHALAMUS  
INTRACRANIAL PRESSURE  
NEUROLOGY  
PINEAL GLAND  
RHEOENCEPHALOGRAPHY  
SPINAL CORD  
THALAMUS  
BRAIN CIRCULATION  
0404 0408  
BT BLOOD CIRCULATION  
#CIRCULATION  
BRAIN DAMAGE  
0405  
BT #INJURIES  
RT BRAIN  
BRAIN STEM  
0404  
BT #ANATOMY  
BRAIN  
CENTRAL NERVOUS SYSTEM  
#NERVOUS SYSTEM  
BRAKES  
0203 0208 0303 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #BRAKES (FOR ARRESTING MOTION)  
BRAKES (FORMING OR BENDING)  
#BRAKES (FOR ARRESTING MOTION)  
0104 0208  
UF DECELERATORS  
DRAGLATORS  
SPEED BRAKES  
NT AERODYNAMIC BRAKES  
AIRCRAFT BRAKES  
BALLUTES  
DRAG CHUTES  
LEADING EDGE SLATS  
PARAVULCOONS  
SPLIT FLAPS  
TRAILING-EDGE FLAPS  
WHEEL BRAKES  
WING FLAPS  
RT ABORT APPARATUS  
ANTISKID DEVICES  
BRAKES  
BRAKING  
CYLINDRICAL CHAMBERS  
#DRAG DEVICES  
FLAPS (CONTROL SURFACES)

## BREAKING

LANDING GEAR  
NOSE WHEELS  
PARACHUTES  
RETARDERS (DEVICES)  
THRUST REVERSAL  
TOWED BODIES  
VEHICLE WHEELS  
#WHEELS  
BRAKES (FORMING OR BENDING)  
1504 1507  
RT BRAKES  
#METAL WORKING  
BRAKING  
0208 0303 1504  
RT #BRAKES (FOR ARRESTING MOTION)  
DECELERATION  
EDDY CURRENTS  
RETARDERS (DEVICES)  
RETARDING  
THRUST REVERSAL  
BRANCHING (MATHEMATICS)  
1902 0802  
RT #FUNCTIONS (MATHEMATICS)  
LOGIC  
#MATHEMATICAL LOGIC  
SET THEORY  
SWITCHING THEORY  
BRANCHING (PHYSICS)  
2311  
RT PHYSICS  
BRASSES  
1701 1704  
BT #ALLOYS  
COPPER ALLOYS  
BRAVAIS CRYSTALS  
2601  
BT #CRYSTALS  
RT CRYSTAL GROWTH  
#CRYSTAL LATTICES  
CRYSTAL STRUCTURE  
PACKING DENSITY  
SINGLE CRYSTALS  
BRAYTON CYCLE  
0303 2805 3303 3304  
BT #CYCLES  
THERMODYNAMIC CYCLES  
RT GAS TURBINE ENGINES  
GAS TURBINES  
RANKINE CYCLE  
BRAZIL  
1305  
RT NATIONS  
SOUTH AMERICA  
BRAZING  
1504 1507 1704  
NT LOW TEMPERATURE BRAZING  
ULTRASONIC SOLDERING  
BT FUSION WELDING  
GAS WELDING  
#WELDING  
RT FLUXES  
JOINING  
METAL BONDING  
SEALING  
SOLDERING  
BREADBOARD MODELS  
0902 0905  
BT ATMOSPHERIC MODELS  
#MODELS  
RT #CIRCUITS  
PRINTED CIRCUITS  
PRODUCT DEVELOPMENT  
PROTOTYPES  
BREAKAWAY  
USE BOUNDARY LAYER SEPARATION  
BREAKDOWN  
0905 3405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT TERMS LISTED  
BELOW)  
RT #CLASSIFICATIONS  
ELECTRICAL FAULTS  
FAILURE  
GAPS  
#METAL WORKING  
SYSTEM FAILURES  
BREAKERS (ELECTRIC)  
USE CIRCUIT BREAKERS  
BREAKING  
3407  
RT DESTRUCTION  
FRAGMENTATION

# BREATHING

SEPARATION  
BREATHING  
0404 0412 0501 0504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT BREATHING VIBRATION  
EXPIRATION  
RESPIRATION  
RESPIRATORY REFLEXES  
BREATHING APPARATUS  
0401 0501 0504  
UF AIRCRAFT BREATHING APPARATUS  
NT OXYGEN MASKS  
UNDERWATER BREATHING APPARATUS  
RT EQUIPMENT  
LIFE SUPPORT SYSTEMS  
OXYGEN SUPPLY EQUIPMENT  
PORTABLE LIFE SUPPORT SYSTEMS  
RESPIRATORS  
BREATHING MODE  
USE BREATHING VIBRATION  
BREATHING VIBRATION  
0101 0201 3203  
UF BREATHING MODE  
BT STRUCTURAL VIBRATION  
#VIBRATION  
RT BENDING VIBRATION  
BREATHING  
EXHAUSTING  
MISSILE VIBRATION  
VENTING  
BRECCIA  
1305 1306  
BT ROCKS  
RT ATAXITE  
IGNEOUS ROCKS  
SEDIMENTARY ROCKS  
BREECHES  
USE CLOSURES  
BREEDER REACTORS  
2204  
NT EXPERIMENTAL BREEDER REACTOR 1  
EXPERIMENTAL BREEDER REACTOR 2  
BT #NUCLEAR REACTORS  
BT ENRICO FERMI ATOMIC POWER PLANT  
NUCLEAR POWER REACTORS  
BREGUET AIRCRAFT  
0209 3401  
NT BREGUET 940 AIRCRAFT  
BREGUET 941 AIRCRAFT  
BREGUET 942 AIRCRAFT  
BREGUET 1150 AIRCRAFT  
RT AIRCRAFT  
JAGUAR AIRCRAFT  
BREGUET 940 AIRCRAFT  
0209  
BT BREGUET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
#V/STOL AIRCRAFT  
BREGUET 941 AIRCRAFT  
0209  
BT BREGUET AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
TURBOPROP AIRCRAFT  
#V/STOL AIRCRAFT  
BREGUET 942 AIRCRAFT  
0209  
BT BREGUET AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
TURBOPROP AIRCRAFT  
#V/STOL AIRCRAFT  
BREGUET 1150 AIRCRAFT  
0207 3401  
UF ATLANTIC AIRCRAFT  
BT ATTACK AIRCRAFT  
BREGUET AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
TURBOPROP AIRCRAFT  
BREMSSTRAHLUNG  
2402 2403

BT #ELECTROMAGNETIC RADIATION  
RT CERENKOV RADIATION  
ELECTRON PHOTON CASCADES  
ELECTRON RADIATION  
FAR ULTRAVIOLET RADIATION  
GAMMA RAYS  
NUCLEAR RADIATION  
RELATIVISTIC PLASMAS  
SYNCHROTRON RADIATION  
X RAYS  
BREWSTER ANGLE  
0710 2306 2310 2402  
BT ANGLES (GEOMETRY)  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT POLARIZATION CHARACTERISTICS  
REFLECTION  
REFRACTIVITY  
BRICKS  
1801 1805  
BT MASONRY  
RT CEMENTS  
CERAMICS  
CLAYS  
CONSTRUCTION MATERIALS  
MORTARS (MATERIAL)  
BRIDGES  
0902 0904 1406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT BRIDGES (STRUCTURES)  
ELECTRIC BRIDGES  
BRIDGES (STRUCTURES)  
3202 3404  
RT BRIDGES  
CONSTRUCTION  
CROSSINGS  
HIGHWAYS  
RAMPS (STRUCTURES)  
STRUCTURES  
TOWERS  
BRIDGMAN METHOD  
2601 3303  
RT METHODOLOGY  
BRIGHTNESS  
1308 1407 2306 2903 3001  
RT BISTATIC REFLECTIVITY  
COLOR  
DIMMING  
ELECTROMAGNETIC PROPERTIES  
EMISSION  
FLUX (RATE)  
GLARE  
HUMAN FACTORS ENGINEERING  
ILLUMINANCE  
ILLUMINATING  
INCANDESCENCE  
INTENSITY  
LIGHT (VISIBLE RADIATION)  
LUMINANCE  
LUMINESCENCE  
LUMINOSITY  
LUMINOUS INTENSITY  
RADIANCE  
RADIANT FLUX DENSITY  
REFLECTANCE  
STELLAR LUMINOSITY  
VISIBILITY  
VISION  
BRIGHTNESS DISCRIMINATION  
0605 1407 2306 2310  
BT #DISCRIMINATION  
SENSORY DISCRIMINATION  
RT ILLUMINATION  
VISUAL PERCEPTION  
BRIGHTNESS TEMPERATURE  
1407 1408 3001  
BT #TEMPERATURE  
RT ASTROPHYSICS  
BLACK BODY RADIATION  
#METEOROLOGY  
#PHOTOGRAPHY  
RADIO ASTRONOMY  
TEMPERATURE MEASUREMENT  
BRILLOUIN EFFECT  
0710 1411 2306 2310 2402  
BT FREQUENCY SHIFT  
LIGHT SCATTERING  
MONOCHROMATIC RADIATION  
BRILLOUIN FLOW  
2401 2403 2405

# NASA THESAURUS (ALPHABETICAL LISTING)

BT #ELECTRIC CURRENT  
RT BEAM CURRENTS  
ELECTRON BEAMS  
ELECTRON OPTICS  
FLOW  
TRAVELING WAVE TUBES  
BRILLOUIN-WIGNER EQUATION  
2403 2603  
RT EQUATIONS  
BRILLOUIN ZONES  
0710 1704 2402 2601  
BT #REGIONS  
RT BAND STRUCTURE OF SOLIDS  
CONDUCTION BANDS  
CRYSTAL LATTICES  
FERMI SURFACES  
FREE ELECTRONS  
BRINES  
0404 0603 1310  
RT COOLANTS  
REFRIGERANTS  
SALINITY  
SALT BATHS  
SEA WATER  
BRIQUETS  
1504 3203  
RT BLANKS  
PELLETS  
TABLETS  
BRISTOL BR-134 AIRCRAFT  
USE BR-134 AIRCRAFT  
BRISTOL-SIDDELEY BS 53 ENGINE  
2805  
UF PEGASUS ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOPAN ENGINES  
TURBOJET ENGINES  
RT P-1127 AIRCRAFT  
BRISTOL-SIDDELEY MK 301 ENGINE  
2808  
BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
BRISTOL-SIDDELEY VIPER ENGINE  
2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
BRITISH AIRCRAFT CORP AIRCRAFT  
USE #BAC AIRCRAFT  
BRITTLE MATERIALS  
1704 1801 1804  
RT CLEAVAGE  
CRACKING (FRACTURING)  
EMBRITTLEMENT  
FRACTURE STRENGTH  
GRANULAR MATERIALS  
HARDNESS  
IMPACT STRENGTH  
MATERIALS  
POROUS MATERIALS  
BRITTLENESS  
1704 2601 3204 3408  
BT #MECHANICAL PROPERTIES  
RT CHARPY IMPACT TEST  
CLEAVAGE  
COLD HARDENING  
CRACK INITIATION  
CRACK PROPAGATION  
CRACKING (FRACTURING)  
DUCTILITY  
EMBRITTLEMENT  
FRACTOGRAPHY  
FRACTURE STRENGTH

# NASA THESAURUS (ALPHABETICAL LISTING)

FRACTURING  
HARDNESS  
IMPACT STRENGTH  
IMPACT TESTS  
NOTCH STRENGTH  
NOTCH TESTS  
TOUGHNESS  
WELDABILITY

BROADBAND  
0701 0905  
UF WIDEBAND  
BT BANDWIDTH  
#FREQUENCIES  
RT FREQUENCY RESPONSE  
LOG PERIODIC ANTENNAS  
SPIRAL ANTENNAS

BROADBAND AMPLIFIERS  
0701 0905  
BT #AMPLIFIERS  
RT BANDWIDTH  
#FREQUENCIES  
WIDEBAND COMMUNICATION

BROADCASTING  
0702 0705  
UF RADIO BROADCASTING  
BT #TELECOMMUNICATION  
RT RADIO COMMUNICATION  
#RADIO EQUIPMENT  
RADIO SIGNALS  
RADIO TRANSMISSION  
#TRANSMISSION  
VOICE OF AMERICA

BROMATES  
0603 1804  
BT BROMINE COMPOUNDS  
#HALOGEN COMPOUNDS  
RT OXYGEN COMPOUNDS

BROMIDES  
0603 1804  
NT AMMONIUM BROMIDES  
ARECOLINE HYDROBROMIDE  
CESIUM BROMIDES  
CHROMIUM BROMIDES  
DIBROMIDES  
HYDROBROMIC ACID  
HYDROBROMIDES  
MAGNESIUM BROMIDES  
POTASSIUM BROMIDES  
SILVER BROMIDES  
SODIUM BROMIDES  
STRONTIUM BROMIDES  
BT BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS

BROMINATION  
0403 0602 0603  
BT #CHEMICAL REACTIONS  
HALOGENATION

BROMINE  
0603 1807  
NT BROMINE ISOTOPES  
BT #CHEMICAL ELEMENTS  
HALOGENS

BROMINE COMPOUNDS  
0403 0603 1804 1808  
NT AMMONIUM BROMIDES  
ARECOLINE HYDROBROMIDE  
BROMATES  
BROMIDES  
CESIUM BROMIDES  
CHROMIUM BROMIDES  
DIBROMIDES  
HYDROBROMIC ACID  
HYDROBROMIDES  
MAGNESIUM BROMIDES  
POTASSIUM BROMIDES  
SILVER BROMIDES  
SODIUM BROMIDES  
STRONTIUM BROMIDES  
BT #HALOGEN COMPOUNDS

BROMINE ISOTOPES  
1807 2406  
UF BROMINE 82  
BROMINE 87  
BT BROHINE  
#CHEMICAL ELEMENTS  
HALOGENS  
ISOTOPES  
NUCLIDES

BROMINE 82  
USE BROMINE ISOTOPES

BROMINE 87  
USE BROMINE ISOTOPES

BRONCHI  
0404  
BT #ANATOMY  
RESPIRATORY SYSTEM  
RT LUNGS  
TRACHEA

BRONCHIAL TUBE  
0404 0405  
NT PHARYNX  
TRACHEA  
BT #ANATOMY  
RESPIRATORY SYSTEM  
RT TUBES

BRONZES  
1701 1704  
BT #ALLOYS  
COPPER ALLOYS

BROTHERS  
0505  
RT FOOD

BROWNIAN MOVEMENTS  
2404 3304  
RT COLLOIDS  
DISPERSIONS  
EINSTEIN EQUATIONS  
EMULSIONS  
FOKKER-PLANCK EQUATION  
MOTION  
SUSPENSIONS

BRUCITE  
1806 2601  
BT #CHALCOGENIDES  
#MAGNESIUM COMPOUNDS  
#MINERALS  
OXIDES

BRUDERHEIM METEORITE  
3005  
BT #CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES

BRUSHES  
0904 1504  
UF FIELD IONIZATION SOURCES  
RT ELECTRIC CONTACTS

BRYOPHYTES  
0404 0409  
BT #PLANTS (BOTANY)

BS-210 AIRCRAFT  
0204 0209  
UF BOLKOW-SIEBEL BS-210 AIRCRAFT  
SIEBEL BS-210 AIRCRAFT  
BT BOLKOW AIRCRAFT  
MONOPLANES

BUBBLE CHAMBERS  
1106 2403 2405  
BT IONIZATION CHAMBERS  
RT CHAMBERS  
CLOUD CHAMBERS  
ELEMENTARY PARTICLES  
PARTICLE TRAJECTORIES  
RADIATION COUNTERS  
SPARK CHAMBERS

BUBBLES  
0603 1201 1202 1203  
RT AERATION  
CAVITATION FLOW  
COANDA EFFECT  
EFFERVESCENCE  
FOAMS  
#WAKES

BUCCANEER AIRCRAFT  
0207 3401  
UF B-103 AIRCRAFT  
BLACKBURN B-103 AIRCRAFT  
BT ATTACK AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RT HARRIER AIRCRAFT

BUCKETS  
0505 1103 1502 1703 1805 3202  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT BOXES (CONTAINERS)  
DRUMS (CONTAINERS)  
TRAYS  
TURBOCHARGE BLADES

## BUFFETING

BUCKEYE AIRCRAFT  
USE T-2 AIRCRAFT

BUCKLING  
3204 3407  
UF COMPRESSION BUCKLING  
NT CREEP BUCKLING  
ELASTIC BUCKLING  
EULER BUCKLING  
THERMAL BUCKLING  
BT BENDING  
COLLAPSE  
COMPRESSION LOADS  
#DEFORMATION  
DISTORTION  
DONNELL EQUATIONS  
FAILURE  
FLANGE WRINKLING  
HEAVING  
RIDGES  
SHELL STABILITY  
#STRESSES  
STRUCTURAL FAILURE  
STRUCTURAL STRAIN  
TEMPERATURE INVERSIONS  
TORSION  
TWISTING  
WARPAGE  
WRINKLING

BUDGETING  
3402  
NT FEDERAL BUDGETS  
RT ALLOCATIONS  
APPROPRIATIONS  
BUDGETS  
COST ANALYSIS  
COST EFFECTIVENESS  
COST ESTIMATES  
ECONOMIC FACTORS  
ESTIMATING  
FINANCIAL MANAGEMENT  
#FORECASTING  
GRANTS  
INCOME  
MISSION PLANNING  
PLANNING  
PROCUREMENT MANAGEMENT  
PROJECT PLANNING  
REVENUE

BUDGETS  
3402 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BUDGETING  
#ENERGY BUDGETS  
ENGINEERING MANAGEMENT  
FEDERAL BUDGETS  
#FOREIGN POLICY  
HEAT BUDGET  
PROCUREMENT MANAGEMENT  
RESEARCH MANAGEMENT

BUFFALO AIRCRAFT  
USE DHC 5 AIRCRAFT

BUFFER STORAGE  
0802  
BT #COMPUTER STORAGE DEVICES  
RT BUFFERS  
CORE STORAGE  
DATA STORAGE  
STORAGE

BUFFERS  
0603 0802  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BUFFER STORAGE  
BUFFERS (CHEMISTRY)  
BUFFERS (CHEMISTRY)  
0603  
RT BUFFERS  
CHEMICAL EQUILIBRIUM  
NEUTRALIZERS  
PH

BUFFETING  
0101  
RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
BOUNDARY LAYER CONTROL  
COMPRESSIBILITY EFFECTS  
FLIGHT CHARACTERISTICS  
FLUTTER  
OSCILLATING FLOW



## BUILDING MATERIALS

SHAKING  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
STROUHAL NUMBER  
TURBULENCE EFFECTS  
BUILDING MATERIALS  
USE CONSTRUCTION MATERIALS  
BUILDING STRUCTURES  
USE BUILDINGS  
BUILDINGS  
3202 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
OF BUILDING STRUCTURES  
RT ARCHITECTURE  
BASEMENTS  
CEILINGS (ARCHITECTURE)  
CHIMNEYS  
CONSTRUCTION  
FLOORS  
HANGARS  
INFLATABLE STRUCTURES  
MISSILE SILOS  
MUSEUMS  
ROOFS  
SHELTERS  
STAIRWAYS  
WALLS  
BULBS  
0409 0904 1407 2306  
RT LUMINAIRES  
PLANT ROOTS  
PRESSURE VESSELS  
BULGARIA  
1305  
RT EUROPE  
NATIONS  
BULGING  
0902 1001 1002  
BT #METAL WORKING  
RT DEEP DRAWING  
DIMPLING  
EXPLOSIVE FORMING  
FORGING  
HOT WORKING  
MAGNETIC FORMING  
METAL DRAWING  
STRETCH FORMING  
BULK MODULUS  
1202 1203  
BT #MECHANICAL PROPERTIES  
RT COMPRESSIBILITY  
DENSITY (MASS/VOLUME)  
BULKHEADS  
0102 2806 3202  
BT WALLS  
RT BARRIERS  
END PLATES  
HULLS (STRUCTURES)  
PARTITIONS (STRUCTURES)  
REINFORCEMENT (STRUCTURES)  
THICK WALLS  
THIN WALLS  
BULLPOP B MISSILE  
3101 3401  
RT LR-62 ENGINE  
LR-62-RH-2 ENGINE  
BULLPOP MISSILES  
0101 3401  
BT AIR TO SURFACE MISSILES  
RT LR-62-RH-2 ENGINE  
XLR-58 ENGINE  
BUMBLEBEE PROJECT  
3401  
BT #MISSILES  
#PROGRAMS  
PROJECTS  
RT TALOS MISSILE  
TARTAR MISSILE  
TERRIER MISSILE  
TYPHON WEAPON SYSTEM  
BUMBERS  
0202 1103 1502 1504 3201  
RT CUSHIONS  
METEOROID PROTECTION  
METEORIODS  
PROTECTORS  
BUNA (TRADEMARK)  
1808 1810  
BT #RUBBER  
SYNTHETIC RUBBERS

RT BUTADIENE  
STYRENES  
BUNCHING  
1002  
RT ELECTRON BUNCHING  
RT QUEUZEING THEORY  
SPACE CHARGE  
VELOCITY MODULATION  
BUNDLE DRAWING  
1704 3404 3407  
RT DRAWING  
METAL DRAWING  
BUNDLES  
1502 1902 3201  
RT CONTAINERS  
PACKAGES  
UMBILICAL CONNECTORS  
WIRING  
BUNKERS (FUEL)  
1103 3401  
BT #TANKS (CONTAINERS)  
RT FUEL SYSTEMS  
BUOYANCY  
1202 1203 1204  
RT BALLAST (MASS)  
DENSITY (MASS/VOLUME)  
FLOATING  
GAS DENSITY  
LEVITATION  
#MECHANICAL PROPERTIES  
PHYSICAL PROPERTIES  
POROSITY  
RAYLEIGH NUMBER  
VOIDS  
BUOYS  
2103 3202  
RT BEACONS  
COMPASSES  
FLOATS  
MARKERS  
#NAVIGATION AIDS  
BUREAUS (ORGANIZATIONS)  
3402 3406 3409  
BT FEDERATIONS  
INSTITUTIONS  
#ORGANIZATIONS  
RT #PROGRAMS  
PROJECTS  
TEAMS  
UNIVERSITY PROGRAM  
BURETTES  
0603  
RT GLASSWARE  
BURGER EQUATION  
1202 1203  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT CONTINUUM MECHANICS  
NAVIER-STOKES EQUATION  
SHOCK WAVE PROPAGATION  
BURMA  
1305  
RT ASIA  
NATIONS  
BURNERS  
1504  
RT AFTERBURNING  
CHEMICAL REACTORS  
COMBUSTION CHAMBERS  
DIFFUSION WELDING  
FUEL INJECTION  
FURNACES  
INCINERATORS  
BURNING  
USE #COMBUSTION  
BURNING PROCESS  
USE #COMBUSTION  
BURNING RATE  
0603 2701 2702 3301 3302  
BT #RATES (PER TIME)  
RT BURNING TIME  
BURNOUT  
#COMBUSTION  
COMBUSTION CONTROL  
COMBUSTION EFFICIENCY  
COMBUSTION STABILITY  
EXPLOSIVES  
FLAME PROPAGATION  
FLAMMABILITY  
FUEL-AIR RATIO  
FUEL CONSUMPTION

## NASA TREASURUS (ALPHABETICAL LISTING)

#FUELS  
PROPELLANT GRAINS  
#PROPELLANTS  
SOLID PROPELLANT ROCKET ENGINES  
SOLID ROCKET PROPELLANTS  
BURNING TIME  
3102 3301  
UP FIRING TIME  
BT #TIME  
RT BURNING RATE  
#COMBUSTION  
COMBUSTION EFFICIENCY  
#FIRING (IGNITING)  
FLIGHT OPTIMIZATION  
FLIGHT TIME  
ROCKET ENGINES  
ROCKET FIRING  
TESTING TIME  
#THRUST  
#WINDOWS (INTERVALS)  
BURNOUT  
1504 3303 3305  
(TERMINATION OF COMBUSTION IN A ROCKET  
ENGINE BECAUSE OF EXHAUSTION OF THE  
PROPELLANT)  
RT BOOSTER ROCKET ENGINES  
BURNING RATE  
#COMBUSTION  
CUT-OFF  
EXTINGUISHING  
SOLID PROPELLANT ROCKET ENGINES  
THRUST TERMINATION  
BURNS (INJURIES)  
0405 0508  
BT #INJURIES  
RT CRASH INJURIES  
FIRES  
LESIONS  
RADIATION INJURIES  
BURNTHROUGH (FAILURE)  
1504 3303 3305  
BT FAILURE  
RT ABLATION  
#DAMAGE  
MELTING  
PERFORATING  
BURROUGHS 220 COMPUTER  
0801 3404  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
#BURSTS  
0203 0301 2702 3301 3302 3304  
RT RADIO BURSTS  
SOLAR RADIO BURSTS  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
RT DISTURBANCES  
EMISSION  
#EXPLOSIONS  
FRAGMENTATION  
IMPLOSIONS  
RUPTURING  
BUS CONDUCTORS  
0902 0904  
BT #CONDUCTORS  
RT ELECTRIC WIRE  
FLAT CONDUCTORS  
POWER LINES  
POWER TRANSMISSION  
BUSHINGS  
0904 1501 1503  
RT #BEARINGS  
INSERTS  
LININGS  
SHAFTS (MACHINE ELEMENTS)  
SPACERS  
BUTADIENE  
0403 1808  
UP VINYL ETHYLENE  
BT #ALIPHATIC COMPOUNDS  
ALKENES  
DIENES  
#HYDROCARBONS  
RT BUNA (TRADEMARK)  
HYDROCARBON FUELS  
POLYBUTADIENE  
BUTANES  
1808  
UP ISOBUTANE

NASA THESAURUS (ALPHABETICAL LISTING)

BYPASSES

BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 BUTENES  
 0403 1808  
 UF BUTYLENE  
 ISOBUTYLENE  
 BT #ALIPHATIC COMPOUNDS  
 ALKENES  
 #HYDROCARBONS  
 BUTT JOINTS  
 1507 1704 3204  
 BT #JOINTS (JUNCTIONS)  
 RT LAP JOINTS  
 METAL JOINTS  
 RIVETED JOINTS  
 SOLDERED JOINTS  
 WELDED JOINTS  
 BUTTERFLY VALVES  
 1504  
 NT DAMPERS (VALVES)  
 BT #VALVES  
 BUTTONS  
 0508 0801 0904 0905 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BUTTONS (FASTENERS)  
 MANUAL CONTROL  
 BUTTONS (FASTENERS)  
 0508  
 BT #FASTENERS  
 RT BUTTONS  
 #CLOTHING  
 ZIPPERS  
 BUTYLENE  
 USE BUTENES  
 BUTYRIC ACID  
 0403 1808  
 BT #ACIDS  
 RT FERMENTATION  
 BY-PRODUCTS  
 0602 3404  
 RT MATERIALS RECOVERY  
 #WASTES  
 BYPASSES  
 0303 0702 0904 1202 1501  
 UF SHUNTS  
 RT DIVERTERS  
 RELIEF VALVES

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**C**

**C-2 AIRCRAFT**  
0207 3401  
UF COD AIRCRAFT  
BT CARGO AIRCRAFT  
GRUMMAN AIRCRAFT  
#JET AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-5 AIRCRAFT**  
0207 3401  
UF GALAXY AIRCRAFT  
LOCKHEED C-5 AIRCRAFT  
BT CARGO AIRCRAFT  
#JET AIRCRAFT  
LOCKHEED AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT AIRCRAFT  
LOGISTICS  
TURBOPAN ENGINES

**C-9 AIRCRAFT**  
0207 3401  
BT CARGO AIRCRAFT  
DOUGLAS AIRCRAFT  
#JET AIRCRAFT  
MCDONNELL AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT AIRCRAFT  
EVACUATION (TRANSPORTATION)  
MEDICAL SERVICES

**C-33 AIRCRAFT**  
0204  
UF BEECH C-33 AIRCRAFT  
DEBONAIR AIRCRAFT  
BT BEECHCRAFT AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
PASSENGER AIRCRAFT

**C-35 AIRCRAFT**  
0204  
UF BEECH S-35 AIRCRAFT  
BONANZA AIRCRAFT  
BT BEECHCRAFT AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
PASSENGER AIRCRAFT

**C-46 AIRCRAFT**  
0204 0207 3401  
UF COMMANDO AIRCRAFT  
CURTISS C-46 AIRCRAFT  
BT CARGO AIRCRAFT  
CURTISS-WRIGHT AIRCRAFT  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-47 AIRCRAFT**  
0207  
UF DAKOTA AIRCRAFT  
BT CARGO AIRCRAFT  
DOUGLAS AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-54 AIRCRAFT**  
0207 3401  
UF R5D AIRCRAFT  
SKYMASTER AIRCRAFT  
BT CARGO AIRCRAFT  
DOUGLAS AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-97 AIRCRAFT**  
0207 3401  
BT BOEING AIRCRAFT  
CARGO AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-118 AIRCRAFT**  
0207 3401  
BT CARGO AIRCRAFT  
DOUGLAS AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-119 AIRCRAFT**  
0207 3401  
BT CARGO AIRCRAFT  
FAIRCHILD-HILLER AIRCRAFT  
#JET AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT AIRCRAFT

**C-121 AIRCRAFT**  
0204 0207  
UF LOCKHEED CONSTELLATION AIRCRAFT  
R7V AIRCRAFT  
BT CARGO AIRCRAFT  
LOCKHEED AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT AIRCRAFT

EC-121 AIRCRAFT  
L-1649 AIRCRAFT

**C-123 AIRCRAFT**  
0207 3401  
UF PROVIDER AIRCRAFT  
YC-123 AIRCRAFT  
BT CARGO AIRCRAFT  
FAIRCHILD-HILLER AIRCRAFT  
MONOPLANES  
SHORT TAKEOFF AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT

**C-124 AIRCRAFT**  
0207 3401  
BT CARGO AIRCRAFT  
DOUGLAS AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-130 AIRCRAFT**  
0207 3401  
UF GC-130 AIRCRAFT  
HERCULES AIRCRAFT  
JC-130 AIRCRAFT  
KC-130 AIRCRAFT  
NC-130 AIRCRAFT  
BT CARGO AIRCRAFT  
LOCKHEED AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT T-56 ENGINE

**C-131 AIRCRAFT**  
0207 3401  
UF SAMARITAN AIRCRAFT  
BT CARGO AIRCRAFT  
#GENERAL DYNAMICS AIRCRAFT  
#TRANSPORT AIRCRAFT

**C-133 AIRCRAFT**  
0207 3401  
UF CARGOMASTER AIRCRAFT  
BT CARGO AIRCRAFT  
DOUGLAS AIRCRAFT  
#JET AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT T-34 ENGINE

**C-135 AIRCRAFT**  
0207 3401  
UF KC-135 AIRCRAFT  
STRATOTANKER AIRCRAFT  
BT BOEING AIRCRAFT  
CARGO AIRCRAFT  
#JET AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT TURBOPAN AIRCRAFT

**C-140 AIRCRAFT**  
0207 3401  
UF JET STAR AIRCRAFT  
BT CARGO AIRCRAFT  
#JET AIRCRAFT  
LOCKHEED AIRCRAFT  
UTILITY AIRCRAFT

**C-141 AIRCRAFT**  
0207 3401  
UF STARLIFTER AIRCRAFT  
BT CARGO AIRCRAFT  
#JET AIRCRAFT  
LOCKHEED AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPAN AIRCRAFT  
RT TURBOPAN ENGINES

**C-142 AIRCRAFT**  
USE XC-142 AIRCRAFT

**C-160 AIRCRAFT**  
0204  
UF TRANSALL C-160 AIRCRAFT  
BT CARGO AIRCRAFT  
HAMBURGER AIRCRAFT  
#JET AIRCRAFT  
NORD AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
RT TURBOPROP ENGINES

**C BAND**  
0705  
BT #FREQUENCIES  
MICROWAVE FREQUENCIES  
RADIO FREQUENCIES  
RT MILLIMETER WAVES  
SUPERHIGH FREQUENCIES

**CABIN ATMOSPHERES**  
0401 0504 0506 0507 3104  
NT SPACECRAFT CABIN ATMOSPHERES  
BT #CONTROLLED ATMOSPHERES  
RT AIRCRAFT COMPARTMENTS  
ATMOSPHERES

COCKPITS  
ENVIRONMENTAL CONTROL  
OXYGEN SUPPLY EQUIPMENT  
PRESSURIZED CABINS  
#SPACE CAPSULES

**CABINS**  
0202 0504 0506 0507 3104  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIRCRAFT COMPARTMENTS  
COCKPITS  
PRESSURIZED CABINS  
SPACECRAFT CABINS

**CABLE FORCE RECORDERS**  
0202 0905 1409 3204  
BT #RECORDING INSTRUMENTS  
RT RECORDERS  
STRAIN GAGES  
TENSIONMETERS

**CABLES**  
0202 0701 0904 0905 1103 1504 3202  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CABLES (ROPES)  
COMMUNICATION CABLES  
POWER LINES  
SUBMARINE CABLES  
TETHERLINES  
#TRANSMISSION LINES

**CABLES (ROPES)**  
1103  
RT BELTS  
CABLES  
CHAINS  
CORDAGE  
#FASTENERS  
STRANDS  
TOWING  
#WIRE

**CADASTRAL MAPPING**  
1303  
BT MAPPING  
RT GEOGRAPHY  
#MAPS

**CADMIUM**  
0603 1703  
NT CADMIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS

**CADMIUM ALLOYS**  
1701 1704  
BT #ALLOYS  
RT BEARING ALLOYS

**CADMIUM ANTIMONIDES**  
0603 1804  
BT ANTIMONIDES  
#ANTIMONY COMPOUNDS  
CADMIUM COMPOUNDS

**CADMIUM CHLORIDES**  
0603 1804  
BT CADMIUM COMPOUNDS  
CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES

**CADMIUM COMPOUNDS**  
0603 1804  
NT CADMIUM ANTIMONIDES  
CADMIUM CHLORIDES  
CADMIUM FLUORIDES  
CADMIUM SELENIDES  
CADMIUM SULFIDES  
CADMIUM TELLURIDES  
RT GROUP 2B COMPOUNDS  
METAL COMPOUNDS

**CADMIUM FLUORIDES**  
0603 1804  
BT CADMIUM COMPOUNDS  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES

**CADMIUM ISOTOPES**  
1703 2406  
UF CADMIUM 114  
BT CADMIUM  
#CHEMICAL ELEMENTS

# CADMIUM NICKEL BATTERIES

ISOTOPES  
NUCLIDES  
CADMIUM NICKEL BATTERIES  
USE NICKEL CADMIUM BATTERIES  
CADMIUM SELENIDES  
0603 1804  
BT CADMIUM COMPOUNDS  
#CHALCOGENIDES  
SELENIDES  
#SELENIUM COMPOUNDS  
CADMIUM SILVER BATTERIES  
USE SILVER CADMIUM BATTERIES  
CADMIUM SULFIDES  
0603 1804  
BT CADMIUM COMPOUNDS  
#CHALCOGENIDES  
INORGANIC SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
CADMIUM TELLURIDES  
0603 1804  
BT CADMIUM COMPOUNDS  
#CHALCOGENIDES  
TELLURIDES  
#TELLURIUM COMPOUNDS  
CADMIUM 114  
USE CADMIUM ISOTOPES  
CAFFEINE  
0403 0405 1808  
BT #DRUGS  
#FUNGICIDES  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
#PURINES  
STIMULANT  
XANTHINES  
CAISSONS  
1106 1310  
BT FOUNDATIONS  
CAJON ROCKET VEHICLE  
3106  
BT #ROCKET VEHICLES  
SOUNDING ROCKETS  
RT NIKE-CAJON ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
SONDES  
CALCIFEROL  
0403  
UP VITAMIN D  
BT VITAMINS  
CALCIFICATION  
0404 0602 1804  
RT ARTHRITIS  
BONES  
CALCINATION  
USE ROASTING  
CALCITE  
1806 2601  
BT CALCIUM CARBONATES  
#CALCIUM COMPOUNDS  
#CARBON COMPOUNDS  
CARBONATES  
#MINERALS  
RT ABAGONITE  
BIREFRINGENCE  
CALCIUM  
1703  
NT CALCIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
RT GYPSUM  
CALCIUM CARBONATES  
0603 1804 1806  
NT AKERMANITE  
ABAGONITE  
CALCITE  
CHALK  
SPURRITE  
BT #CALCIUM COMPOUNDS  
#CARBON COMPOUNDS  
CARBONATES  
RT LIMESTONE  
CALCIUM CHLORIDES  
0603 1804  
BT #CALCIUM COMPOUNDS  
CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#CALCIUM COMPOUNDS  
0403 0603 1804 1808

BT AKERMANITE  
ABAGONITE  
CALCITE  
CALCIUM CARBONATES  
CALCIUM CHLORIDES  
CALCIUM FLUORIDES  
CALCIUM NIOBATES  
CALCIUM OXIDES  
CALCIUM PHOSPHATES  
CALCIUM SILICATES  
CALCIUM SULFIDES  
CALCIUM TUNGSTATES  
CALCIUM VANADATES  
CHALK  
FLUORITE  
FLUORSPAR  
GEHLENITE  
HERWINITE  
MONTICELLITE  
PEROVSKITES  
SCHEELITE  
SPURRITE  
BT ALKALINE EARTH COMPOUNDS  
METAL COMPOUNDS  
CALCIUM FLUORIDES  
0603 1804  
NT FLUORSPAR  
BT #CALCIUM COMPOUNDS  
DIFLUORIDES  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
CALCIUM ISOTOPES  
1703 2406  
UP CALCIUM 45  
BT CALCIUM  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
CALCIUM METABOLISM  
0403 0404  
BT #METABOLISM  
RT BED REST  
PARATHYROID GLAND  
THYROID GLAND  
CALCIUM NIOBATES  
0603 1804  
BT #CALCIUM COMPOUNDS  
NIOBATES  
#NIOBIUM COMPOUNDS  
CALCIUM OXIDES  
0603 1804  
UP LIME  
NT AKERMANITE  
BT ALKALINE EARTH OXIDES  
#CALCIUM COMPOUNDS  
#CHALCOGENIDES  
METAL OXIDES  
OXIDES  
CALCIUM PHOSPHATES  
0603 1804  
UP APATITES  
BT #CALCIUM COMPOUNDS  
PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
CALCIUM SILICATES  
0603 1804  
NT GEHLENITE  
SPURRITE  
BT #CALCIUM COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
RT AMPHIBOLES  
#MINERALS  
CALCIUM SULFIDES  
0603 1804  
BT #CALCIUM COMPOUNDS  
#CHALCOGENIDES  
INORGANIC SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
CALCIUM TUNGSTATES  
0603 1804  
BT #CALCIUM COMPOUNDS  
TUNGSTATES  
#TUNGSTEN COMPOUNDS  
CALCIUM VANADATES  
0603 1804  
BT #CALCIUM COMPOUNDS

# VASA THESAURUS (ALPHABETICAL LISTING)

VANADATES  
#VANADIUM COMPOUNDS  
CALCIUM 45  
USE CALCIUM ISOTOPES  
CALCULATION  
USE #COMPUTATION  
CALCULATORS  
0801 3404  
RT ARITHMETIC  
#COMPUTATION  
COMPUTERS  
CALCULI  
0404  
UP RENAL CALCULI  
NT DENTAL CALCULI  
BT #DEPOSITS  
CALCULUS  
1902 1903  
(MATHEMATICS CONCERNED WITH LIMITS AND  
REAL FUNCTIONS)  
NT ASYMPTOTIC SERIES  
CAMPBELL-HAUSDORFF SERIES  
COLLINEARITY  
CONTINUITY (MATHEMATICS)  
COPLANARITY  
COSINE SERIES  
CURL (VECTORS)  
DIFFERENTIAL CALCULUS  
FOURIER-BESSEL TRANSFORMATION  
FOURIER-BESSEL TRANSFORMATIONS  
FOURIER SERIES  
INTEGRAL CALCULUS  
LIMITS (MATHEMATICS)  
MACLAURIN SERIES  
PADE APPROXIMATION  
POWER SERIES  
PROGRESSIONS  
PRONY SERIES  
SERIES (MATHEMATICS)  
SINE SERIES  
TAYLOR SERIES  
VECTOR ANALYSIS  
VERTICITY  
BT #ANALYSIS (MATHEMATICS)  
RT ANALYTIC GEOMETRY  
ASYMPTOTES  
CALCULUS OF VARIATIONS  
DIFFERENTIAL EQUATIONS  
#FUNCTIONS (MATHEMATICS)  
MATHEMATICS  
MONOTONE FUNCTIONS  
OPERATIONAL CALCULUS  
REAL VARIABLES  
CALCULUS OF VARIATIONS  
1902  
UP VARIATION METHOD  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT BIOT METHOD  
CALCULUS  
CASTIGLIANO VARIATIONAL THEOREM  
DIFFERENTIAL EQUATIONS  
EULER-LAGRANGE EQUATION  
INTEGRAL EQUATIONS  
INVARIANT IMBEDDINGS  
JACOBI MATRIX METHOD  
MAXIMA  
OPERATIONAL CALCULUS  
PONTYAGIN PRINCIPLE  
STEEPEST DESCENT METHOD  
VARIATIONAL PRINCIPLES  
CALDERAS  
1306 1308  
RT #CRATERS  
LAVA  
VOLCANOLOGY  
CALENDARS  
1406  
RT MONTH  
SCHEDULING  
#TIME  
CALIBRATING  
1406 3407  
UP GRADUATION  
NT WIND TUNNEL CALIBRATION  
RT ACCURACY  
INSTRUMENT COMPENSATION  
INSTRUMENT ERRORS  
#MEASURING INSTRUMENTS  
SCALING  
STANDARDIZATION  
STANDARDS

# NASA THESAURUS (ALPHABETICAL LISTING)

TEMPERATURE SCALES  
**CALIFORNIA**  
 1305  
 BT UNITED STATES OF AMERICA  
**CALIFORNIA**  
 0603 1703 2406  
 BT CALIFORNIA ISOTOPES  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 #METALS  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIAN ELEMENTS  
**CALIFORNIA ISOTOPES**  
 0603 2406  
 UF CALIFORNIA 252  
 BT ACTINIDE SERIES  
 CALIFORNIA  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIAN ELEMENTS  
**CALIFORNIA 252**  
 USE CALIFORNIA ISOTOPES  
**CALORIC REQUIREMENTS**  
 0404 0405 0408  
 BT NUTRITIONAL REQUIREMENTS  
**CALORIC STIMULI**  
 0404 0408  
 RT STIMULI  
**CALORIMETERS**  
 1408  
 UF MICROCALORIMETERS  
 NT BOMB CALORIMETERS  
 DROP CALORIMETERS  
 FLAME CALORIMETERS  
 BT #MEASURING INSTRUMENTS  
 RT HEAT MEASUREMENT  
 HIGH TEMPERATURE TESTS  
 TEMPERATURE MEASURING INSTRUMENTS  
**CALORIMETRY**  
 USE HEAT MEASUREMENT  
**CALUTRONS**  
 USE CYCLOTRONS  
**CALVES**  
 0402  
 BT #ANIMALS  
 CATTLE  
 MAMMALS  
 VERTEBRATES  
**CAMBER**  
 0102 0104  
 NT CONICAL CAMBER  
 WING CAMBER  
 RT #AIRFOILS  
 BENDING  
 BOWS  
 CAMBERED WINGS  
 CURVATURE  
 CURVED BEAMS  
 DEPLETION  
 #DEFORMATION  
 DISTORTION  
 FLEXING  
 FUSELAGES  
 LIFT  
 WARPAGE  
**CAMBERED WINGS**  
 0104  
 BT #AIRFOILS  
 WINGS  
 RT CAMBER  
 FIXED WINGS  
 TWISTED WINGS  
 UNCAMBERED WINGS  
 WING CAMBER  
**CAMBODIA**  
 1305  
 RT ASIA  
 NATIONS  
**CAMEL AIRCRAFT**  
 USE TU-104 AIRCRAFT  
**CAMERA SHUTTERS**  
 1412  
 RT CAMERAS  
 IRISES (MECHANICAL APERTURES)  
 KERR CELLS  
 PANORAMIC CAMERAS

SHUTTERS  
**CAMERA TUBES**  
 0701 1407 1412  
 NT IMAGE DISSECTOR TUBES  
 IMAGE ORTHICONS  
 ORTHICONS  
 RETURN BEAM VIDICONS  
 THERMIONS  
 VIDICONS  
 BT #ELECTRON TUBES  
 RT DYNODES  
 IMAGE CONVERTERS  
 IMAGE TRANSDUCERS  
 MONOSCOPES  
 PLANOTRONS  
 TELEVISION CAMERAS  
 VIDEO EQUIPMENT  
**CAMERAS**  
 1407 1412  
 NT BAKER-NUNN CAMERA  
 BALLISTIC CAMERAS  
 DELFT CAMERA  
 FRAMING CAMERAS  
 HIGH SPEED CAMERAS  
 LALLEMAND CAMERAS  
 PANORAMIC CAMERAS  
 SCHMIDT CAMERAS  
 TELEVISION CAMERAS  
 BT #OPTICAL EQUIPMENT  
 #PHOTOGRAPHIC EQUIPMENT  
 RT CAMERA SHUTTERS  
 CINEMATOGRAPHY  
 FOCUSING  
 LENSES  
 #PHOTOGRAPHY  
 ULTRAVIOLET PHOTOGRAPHY  
 UNDERWATER PHOTOGRAPHY  
 WIDE ANGLE LENSES  
**CAMOUFLAGE**  
 2310 3401  
 RT AIR DEFENSE  
 COVERINGS  
**CAMPBELL-HAUSDORFF SERIES**  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 REAL VARIABLES  
 SERIES (MATHEMATICS)  
**CAMPOR**  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 KETONES  
 TERPENES  
**CAMS**  
 1504  
 BT POSITIONING DEVICES (MACHINERY)  
 RT ACTUATORS  
 ECCENTRICS  
 INTERNAL COMBUSTION ENGINES  
 LINKAGES  
 MECHANICAL DEVICES  
**CANADA**  
 1305  
 NT LABRADOR  
 MANITOBA  
 ONTARIO  
 RT ACCORDION PROJECT  
 NATIONS  
 NORTH AMERICA  
**CANADAIR AIRCRAFT**  
 0204  
 UF CANADAIR CP-104 AIRCRAFT  
 CP-104 AIRCRAFT  
 NT CL-28 AIRCRAFT  
 CL-41 AIRCRAFT  
 CL-44 AIRCRAFT  
 CL-84 AIRCRAFT  
 BT #GENERAL DYNAMICS AIRCRAFT  
 RT AIRCRAFT  
**CANADAIR CP-104 AIRCRAFT**  
 USE CANADAIR AIRCRAFT  
 F-104 AIRCRAFT  
**CANADAIR CL-28 AIRCRAFT**  
 USE CL-28 AIRCRAFT  
**CANADAIR CL-41 AIRCRAFT**  
 USE CL-41 AIRCRAFT  
**CANADAIR CL-44 AIRCRAFT**  
 USE CL-44 AIRCRAFT  
**CANADAIR CL-84 AIRCRAFT**  
 USE CL-84 AIRCRAFT  
**CANADIAN SHIELD**  
 1305 1306 3005

**CANTILEVER MEMBERS**  
 RT #GEOLOGY  
 METEORITE CRATERS  
 PRECAMBRIAN PERIOD  
**CANALS**  
 1103 1204  
 RT DITCHES  
 #FLUID FLOW  
 GATES (OPENINGS)  
 IRRIGATION  
 MARS SURFACE  
 MATERIALS HANDLING  
 PANAMA  
 SEEPAGE  
 WATER FLOW  
**CANARD CONFIGURATIONS**  
 0104  
 RT AIRCRAFT STRUCTURES  
 #CONTROL SURFACES  
 SAAB 37 AIRCRAFT  
 TANDEM WING AIRCRAFT  
**CANBERRA AIRCRAFT**  
 0207 3401  
 UF ENGLISH ELECTRIC CANBERRA AIRCRAFT  
 BT #BAC AIRCRAFT  
 ENGLISH ELECTRIC AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 RT B-57 AIRCRAFT  
**CANBERRA BOMBER**  
 USE B-57 AIRCRAFT  
**CANCELLATION**  
 3406 3407  
 RT CONTRACTS  
 ELIMINATION  
 REMOVAL  
 STOPPING  
**CANCER**  
 0404 0405 0406  
 UF CARCINOMA  
 SARCOMA  
 NT LEUKEMIAS  
 BT #DISEASES  
 NEOPLASMS  
 TUMORS  
 RT BONE MARROW  
 CARCINOGENS  
 #CELLS (BIOLOGY)  
 RADIATION THERAPY  
 TISSUES (BIOLOGY)  
 ULCERS  
**CANISTERS**  
 USE CANS  
**CANNING**  
 0505  
 RT ENCAPSULATING  
 FOOD  
**CANNONS**  
 USE GUNS (ORDNANCE)  
**CANHOLAE**  
 0405  
 RT TUBES  
**CANONICAL FORMS**  
 1902 2308 2311  
 BT #ALGEBRA  
 MATRICES (MATHEMATICS)  
 VECTOR SPACES  
 RT FIBERS (MATHEMATICS)  
**CANOPIES**  
 0101 0208  
 RT AIRCRAFT STRUCTURES  
 AIRFRAMES  
 COCKPITS  
 FAIRINGS  
 WINDSHIELDS  
**CANS**  
 1103 1504  
 UF CANISTERS  
 RT CONTAINERS  
 DRUMS (CONTAINERS)  
**CANT**  
 USE SLOPES  
**CANTILEVER BEAMS**  
 3202  
 BT BEAMS (SUPPORTS)  
 CANTILEVER MEMBERS  
 #STRUCTURAL MEMBERS  
 RT BOX BEAMS  
 CANTILEVER PLATES  
 I BEAMS  
**CANTILEVER MEMBERS**  
 3202  
 RT CANTILEVER BEAMS

# CANTILEVER PLATES

BT CANTILEVER PLATES  
LEVERS  
CANTILEVER PLATES  
3202  
BT CANTILEVER MEMBERS  
PLATES (STRUCTURAL MEMBERS)  
#STRUCTURAL MEMBERS  
BT ANISOTROPIC PLATES  
CANTILEVER BEAMS  
CANTILEVER WINGS  
USE WINGS  
CAPACITANCE  
1001 1002 1201 2304 2602 3304 3408  
BT #ELECTRICAL PROPERTIES  
RT CAPACITORS  
CAPACITY  
DIELECTRIC PROPERTIES  
#ELECTRIC CHARGE  
ELECTRICAL IMPEDANCE  
ELECTROSTATIC CHARGE  
INDUCTANCE  
RC CIRCUITS  
REACTANCE  
RLC CIRCUITS  
CAPACITANCE SWITCHES  
0902 0904  
BT #SWITCHES  
RT CAPACITORS  
DIELECTRICS  
RLC CIRCUITS  
SWITCHING CIRCUITS  
CAPACITIVE FUEL GAGES  
1406  
BT FUEL GAGES  
#MEASURING INSTRUMENTS  
RT DIELECTRICS  
CAPACITORS  
0903 0904 0905 1409  
RT #AMPLIFIERS  
BALLASTS (IMPEDANCES)  
CAPACITANCE  
CAPACITANCE SWITCHES  
CIRCUIT PROTECTION  
#CIRCUITS  
CONDENSERS  
DIELECTRICS  
ELECTRETS  
ELECTRIC BRIDGES  
ELECTRIC ENERGY STORAGE  
#ELECTRIC FILTERS  
ELECTRIC REACTORS  
ENERGY STORAGE  
GERDIEN CONDENSERS  
PARALLEL PLATES  
SOLID STATE DEVICES  
CAPACITY  
3401 3404 3406 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CAPACITANCE  
CHANNEL CAPACITY  
OUTPUT  
PRODUCTION ENGINEERING  
RISK  
VOLUME  
CAPE KENNEDY LAUNCH COMPLEX  
1104 1106 1108 1109 1305  
BT LAUNCHING BASES  
RT GROUND SUPPORT EQUIPMENT  
CAPILLARIES  
0303 0404 1202 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CAPILLARIES (ANATOMY)  
CAPILLARY TUBES  
CAPILLARIES (ANATOMY)  
0402 0405  
BT #ANATOMY  
BLOOD VESSELS  
CARDIOVASCULAR SYSTEM  
CIRCULATORY SYSTEM  
VASCULAR SYSTEM  
RT BLOOD  
CAPILLARIES  
CAPILLARY CIRCULATION  
USE CAPILLARY FLOW  
CAPILLARY FLOW  
1202 1203  
UF CAPILLARY CIRCULATION  
BT #FLUID FLOW

BT BLOOD FLOW  
CAPILLARY TUBES  
LAMINAR FLOW  
CAPILLARY TUBES  
1202 1203  
RT CAPILLARIES  
CAPILLARY FLOW  
TUBES  
CAPILLARY WAVES  
1202  
BT BAROCLINIC WAVES  
GRAVITY WAVES  
RIPPLES  
BT #ELASTIC WAVES  
#SURFACE WAVES  
RT INTERFACIAL TENSION  
TWO DIMENSIONAL FLOW  
WATER WAVES  
CAPS  
0508 1102 1504 3203 3302  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CAPS (EXPLOSIVES)  
COVERINGS  
NOSE CONES  
POLAR CAPS  
SEALS (STOPPERS)  
SPHERICAL CAPS  
CAPS (EXPLOSIVES)  
3302  
BT #EXPLOSIVE DEVICES  
#IGNITERS  
INITIATORS (EXPLOSIVES)  
RT CAPS  
DETONATORS  
EXPLODING WIRES  
FUSES (ORDNANCE)  
PRIMERS (EXPLOSIVES)  
CAPSULES  
0202 0405 0410 0504 1502 3104 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT FUEL CAPSULES  
#SHELLS (STRUCTURAL FORMS)  
#SPACE CAPSULES  
TABLETS  
TEST CHAMBERS  
TEST VEHICLES  
CAPSULES (SPACECRAFT)  
USE #SPACE CAPSULES  
#CAPTIVE TESTS  
0202 1108 2801 2805 2808  
RT STATIC FIRING  
STATIC TESTS  
RT ENGINE TESTS  
#GROUND TESTS  
MISSILE TESTS  
PREFIRING TESTS  
PRELAUNCH TESTS  
STATIC TESTS  
TESTS  
CAPTURE CROSS SECTIONS  
USE ABSORPTION CROSS SECTIONS  
CAPTURE EFFECT  
0705 0710 2401 2402 2403 2405  
RT ABSORPTANCE  
ABSORPTION  
ELECTRON CAPTURE  
FREQUENCY MODULATION  
FREQUENCY SYNCHRONIZATION  
#RECOMBINATION REACTIONS  
TRAJECTORY ANALYSIS  
CAPTURED AIR BUBBLE VEHICLES  
1204  
BT #SURFACE VEHICLES  
#WATER VEHICLES  
RT HYDROFOIL CRAFT  
VEHICLES  
CARAVELLE AIRCRAFT  
USE SE-210 AIRCRAFT  
CARBANATHES (TRADENAME)  
0403 1808  
RT URETHANES  
BT #ALIPHATIC COMPOUNDS  
#ESTERS  
INSECTICIDES  
#POISONS  
CARBANIDES  
0403 1808  
BT #ALIPHATIC COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

ANIDES  
#NITROGEN COMPOUNDS  
CARBAZOLES  
0403 1808  
BT AZOLES  
#HETEROCYCLIC COMPOUNDS  
PYRROLES  
CARBENES  
1808  
RT FREE RADICALS  
CARBIDES  
0605 1703 1804 1808  
UF METAL CARBIDES  
RT ALUMINUM CARBIDES  
BORON CARBIDES  
CEMENTITE  
CHROMIUM CARBIDES  
HAFNIUM CARBIDES  
MOLYBDENUM CARBIDES  
NIOBIUM CARBIDES  
SILICON CARBIDES  
TANTALUM CARBIDES  
TITANIUM CARBIDES  
TUNGSTEN CARBIDES  
URANIUM CARBIDES  
VANADIUM CARBIDES  
ZIRCONIUM CARBIDES  
BT #CARBON COMPOUNDS  
RT CERAMIC NUCLEAR FUELS  
#REFRACTORY MATERIALS  
CARBOHYDRATE METABOLISM  
0403 0404  
RT HYPERGLYCEMIA  
HYPOGLYCEMIA  
BT #METABOLISM  
RT DIABETES MELLITUS  
#CARBOHYDRATES  
0403 0404 0505 1808  
UF SACCHARIDES  
RT ADENINES  
ADENOSINE DIPHOSPHATE (ADP)  
ADENOSINE TRIPHOSPHATE (ATP)  
ADENOSINES  
CELLULOSE  
CHITIN  
CHOLINE  
CITRIC ACID  
DEXTRANS  
FATS  
FORTISAN (TRADEMARK)  
GALACTOKINASE  
GALACTOSE  
GLUCOSE  
GLUCOSIDES  
GLYCOCENS  
HEXOKINASE  
HEXOSES  
INOSITOLS  
LACTOSE  
MANNITOL  
MONOSACCHARIDES  
NUCLEOSIDES  
PENTOSE  
POLYSACCHARIDES  
RIBOSE  
STARCHES  
SUCROSE  
SUGARS  
XYLOSE  
RT ALCOHOLS  
ETHYL ALCOHOL  
FOOD  
GLYCEROLS  
NUTRIENTS  
OXYGEN COMPOUNDS  
PHOTOSYNTHESIS  
STEREOCHEMISTRY  
CARBON  
0603 1805 1807  
RT CARBON ISOTOPES  
CARBON 12  
CARBON 13  
CARBON 14  
CHARCOAL  
BT #CHEMICAL ELEMENTS  
RT BITUMENS  
CARBON STEELS  
COKE  
DIAMONDS  
GRAPHITE  
SOOT

# NASA THESAURUS (ALPHABETICAL LISTING)

CARBON ARCS  
0602 0605 1411 2306  
BT ELECTRIC ARCS  
#ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
RT ARC LAMPS  
IMAGE FURNACES  
#CARBON COMPOUNDS  
0403 1804 1808  
NT AKERMANITE  
ALUMINUM CARBIDES  
ARAGONITE  
BASTNASITE  
BORON CARBIDES  
CALCITE  
CALCIUM CARBONATES  
CARBIDES  
CARBONATES  
CEMENTITE  
CHALK  
CHROMIUM CARBIDES  
DOLomite (MINERAL)  
HAFNIUM CARBIDES  
LEXAN (TRADEMARK)  
MOLYBDENUM CARBIDES  
NIObIUM CARBIDES  
POLYCARBONATES  
SIDERITES  
SILICON CARBIDES  
SODIUM CARBONATES  
SPURRITE  
TANTALUM CARBIDES  
TETRAETHYL ORTHOCARBONATES  
TITANIUM CARBIDES  
TUNGSTEN CARBIDES  
URANIUM CARBIDES  
VANADIUM CARBIDES  
ZIRCONIUM CARBIDES  
RT GROUP 4A COMPOUNDS  
#HYDROCARBONS  
SWAN BANDS  
CARBON DIOXIDE  
0403 1804 1808  
BT #CHALCOGENIDES  
DIOXIDES  
#GASES  
OXIDES  
RT CARBON DIOXIDE CONCENTRATION  
CARBON DIOXIDE REMOVAL  
CARBON MONOXIDE  
METABOLIC WASTES  
CARBON DIOXIDE CONCENTRATION  
0408 0504 0506 1301  
BT CHEMICAL COMPOSITION  
#COMPOSITION (PROPERTY)  
CONCENTRATION (COMPOSITION)  
GAS COMPOSITION  
RT AIR PURIFICATION  
ATMOSPHERIC COMPOSITION  
CARBON DIOXIDE  
DECONTAMINATION  
REBREATHING  
SPACECRAFT CABIN ATMOSPHERES  
CARBON DIOXIDE LASERS  
1203 1601 2311 3304  
BT GAS LASERS  
LASERS  
#STIMULATED EMISSION DEVICES  
RT CHEMICAL LASERS  
GAS LASERS  
INFRARED LASERS  
MACH-ZEHNDER INTERFEROMETERS  
MOLECULAR OSCILLATIONS  
ORGANIC LASERS  
POLAR GASES  
PULSED LASERS  
Q SWITCHED LASERS  
STIMULATED EMISSION  
CARBON DIOXIDE REMOVAL  
0504 0505  
RT AIR PURIFICATION  
CARBON DIOXIDE  
DECONTAMINATION  
REBREATHING  
REMOVAL  
SMOKE ABATEMENT  
CARBON DIOXIDE TENSION  
0408  
NT HYPERCAPNIA  
HYPOCAPNIA  
CARBON DISULFIDE  
0603 1808

BT #CHALCOGENIDES  
DISULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
CARBON FIBERS  
1805 1807  
BT #FIBERS  
REINFORCING FIBERS  
RT #COMPOSITE MATERIALS  
FILAMENTS  
CARBON ISOTOPIES  
0603 1807 2406  
NT CARBON 12  
CARBON 13  
CARBON 14  
BT CARBON  
#CHEMICAL ELEMENTS  
ISOTOPIES  
NUCLIDES  
CARBON MONOXIDE  
0603 1804  
BT #CHALCOGENIDES  
#GASES  
OXIDES  
RT CARBON DIOXIDE  
HOPCALITE (TRADEMARK)  
SHOG  
CARBON MONOXIDE LASERS  
1203 1601 2311 3304  
BT LASERS  
#STIMULATED EMISSION DEVICES  
RT CHEMICAL LASERS  
GAS LASERS  
INFRARED LASERS  
MOLECULAR OSCILLATIONS  
STIMULATED EMISSION  
CARBON MONOXIDE POISONING  
0405 0412  
BT #DISEASES  
TOXIC DISEASES  
TOXICITY  
RT CARBOXYHEMOGLOBIN  
LETHALITY  
PATHOLOGICAL EFFECTS  
POISONING  
CARBON STEELS  
1701 1704  
BT #ALLOYS  
IRON ALLOYS  
STEELS  
RT CARBON  
HIGH STRENGTH STEELS  
CARBON TETRACHLORIDE  
0603 1804  
UP TETRACHLOROMETHANE  
BT #ALIPHATIC COMPOUNDS  
CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
CARBON TETRACHLORIDE POISONING  
0405 0412  
RT INDUSTRIAL SAFETY  
POISONING  
TOXICITY AND SAFETY HAZARD  
TOXICOLOGY  
CARBON TETRAFLUORIDE  
0603 1804  
BT #ALIPHATIC COMPOUNDS  
#FLUORINE COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLUORO COMPOUNDS  
FLUOROHYDROCARBONS  
#HALOGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
CARBON 12  
0603 1807 2406  
BT CARBON  
CARBON ISOTOPIES  
#CHEMICAL ELEMENTS  
ISOTOPIES  
NUCLIDES  
CARBON 13  
0603 1807 2406  
BT CARBON  
CARBON ISOTOPIES  
#CHEMICAL ELEMENTS  
ISOTOPIES  
NUCLIDES  
CARBON 14  
0603 1807 2406  
BT CARBON

## CARBOXYHEMOGLOBIN TEST

CARBON ISOTOPIES  
#CHEMICAL ELEMENTS  
ISOTOPIES  
NUCLIDES  
RADIOACTIVE ISOTOPIES  
CARBONACEOUS METEORITES  
3005  
NT ALAIS METEORITE  
COLD BOKKEVELD METEORITE  
IVUNA METEORITE  
MURRAY METEORITE  
ORGUEIL METEORITE  
TONK METEORITE  
BT #CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES  
RT CARBONACEOUS ROCKS  
EXOBIOLOGY  
METEORITIC COMPOSITION  
CARBONACEOUS ROCKS  
1306  
NT COAL  
BT ROCKS  
SEDIMENTARY ROCKS  
RT CARBONACEOUS METEORITES  
CARBONATES  
#SOILS  
CARBONATES  
0603 1804 1806  
UP BICARBONATES  
NT AKERMANITE  
ARAGONITE  
BASTNASITE  
CALCITE  
CALCIUM CARBONATES  
CHALK  
DOLomite (MINERAL)  
LEXAN (TRADEMARK)  
POLYCARBONATES  
SIDERITES  
SODIUM CARBONATES  
SPURRITE  
TETRAETHYL ORTHOCARBONATES  
BT #CARBON COMPOUNDS  
RT ALKALIES  
CARBONACEOUS ROCKS  
CARBONIC ACID  
OXYGEN COMPOUNDS  
CARBONIC ACID  
0603 1804  
BT #ACIDS  
RT CARBONATES  
CARBONIC ANHYDRASE  
0403 1808  
BT ENZYMES  
#PROTEINS  
RT ACETAZOLAMIDE  
CARBONIZATION  
0403 0602  
BT #CHEMICAL REACTIONS  
RT CHARRING  
DECARBONATION  
CARBONYL COMPOUNDS  
1808  
RT #ALIPHATIC COMPOUNDS  
CARBORANE  
1808  
BT BORANES  
#BORON COMPOUNDS  
BORON HYDRIDES  
HYDRIDES  
#HYDROGEN COMPOUNDS  
CARBORUNDUM (TRADEMARK)  
0603 1804  
BT ABRASIVES  
RT #REFRACTORY MATERIALS  
SILICON CARBIDES  
CARBOXYHEMOGLOBIN  
0403 1808  
BT BLOOD CIRCULATION  
#CELLS (BIOLOGY)  
#CIRCULATION  
HEMOGLOBIN  
#ORGANOMETALLIC COMPOUNDS  
#PROTEINS  
RT CARBON MONOXIDE POISONING  
ERYTHROCYTES  
CARBOXYHEMOGLOBIN TEST  
0403 0405  
BT PHYSIOLOGICAL TESTS  
RT BLOOD

# CARBOXYL GROUP

HEMATOLOGY  
**CARBOXYL GROUP**  
 0403 1808  
 RT CARBOXYLIC ACIDS  
**CARBOXYLATES**  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #ESTERS  
 RT CARBOXYLIC ACIDS  
**CARBOXYLATION**  
 0403 0602  
 BT #CHEMICAL REACTIONS  
 RT DECARBOXYLATION  
**CARBOXYLIC ACIDS**  
 0403 1808  
 NT ACETIC ACID  
 ACETILSALICYLIC ACID  
 ACRYLIC ACID  
 ALANINE  
 ASPARTIC ACID  
 BENZILIC ACID  
 BENZOIC ACID  
 CITRIC ACID  
 DICARBOXYLIC ACIDS  
 ETHYLENEDIAMINETETRAACETIC ACIDS  
 FOLIC ACID  
 FORMYDROXAMIC ACID  
 FORMIC ACID  
 HEXOGENES (TRADEMARK)  
 IODOACETIC ACID  
 LACTIC ACID  
 LYSINE  
 NICOTINIC ACID  
 OLEIC ACID  
 OXALIC ACID  
 PROPIONIC ACID  
 SEBACIC ACID  
 TEREPHTHALATE  
 TRYPTOPHAN  
 VALERIC ACID  
 VERSENE  
 BT #ACIDS  
 RT #ALIPHATIC COMPOUNDS  
 CARBOXYL GROUP  
 CARBOXYLATES  
**CARBURETORS**  
 0303 1504 2801  
 UP INJECTION CARBURETORS  
 RT CHOKES (FUEL SYSTEMS)  
 CONTACTORS  
 ENGINE PARTS  
 #ENGINES  
 FUEL INJECTION  
 FUEL SYSTEMS  
 INJECTORS  
 INTERNAL COMBUSTION ENGINES  
 JET NOZZLES  
 MIXERS  
 PREMIXED FLAMES  
 THROATS  
**CARBURIZING**  
 0602  
 BT #HARDENING (MATERIALS)  
 RT DECARBURIZATION  
**CARCINOGENS**  
 0403 0405 1808  
 RT CANCER  
**CARCINOMA**  
 USE CANCER  
**CARCINOTRONS**  
 0905  
 BT #AMPLIFIERS  
 RT HELITRONS  
**CARDIAC AURICLES**  
 0404  
 BT #ANATOMY  
 CARDIOVASCULAR SYSTEM  
 HEART  
**CARDIAC VENTRICLES**  
 0404  
 BT #ANATOMY  
 CARDIOVASCULAR SYSTEM  
 HEART  
 RT SYSTOLE  
**CARDIOGRAMS**  
 0405 0501  
 RT BIOMEDICAL DATA  
 RADIOGRAPHY  
 HEART  
**CARDIOGRAPHY**  
 0405 0501  
 NT BALLISTOCARDIOGRAPHY

ELECTROCARDIOGRAPHY  
 MAGNETOCARDIOGRAPHY  
 BT #BIOENGINEERING  
 BIOMETRICS  
 RT CARDIOGRAMS  
 CARDIOVASCULAR SYSTEM  
 HEART  
 HEART DISEASES  
 #MEDICAL EQUIPMENT  
 PHYSIOLOGICAL TESTS  
**CARDIOLOGY**  
 0404 0405  
 RT HEART  
 HEART DISEASES  
 HEART RATE  
**CARDIOTACHOMETERS**  
 0405 0501  
 BT #MEDICAL EQUIPMENT  
 RT HEART  
**CARDIOVASCULAR SYSTEM**  
 0404 0405 0408  
 NT AORTA  
 ARTERIES  
 BLOOD VESSELS  
 CAPILLARIES (ANATOMY)  
 CARDIAC AURICLES  
 CARDIAC VENTRICLES  
 CORPUSCLES  
 DIASTOLE  
 EOSINOPHILS  
 EPICARDIUM  
 ERYTHROCYTES  
 GLOMERULUS  
 HEART  
 HEMATOPOIESIS  
 HEMATOPOIETIC SYSTEM  
 LEUKOCYTES  
 LYMPHOCYTES  
 MYOCARDIUM  
 RETICULOCYTES  
 SYSTOLE  
 THROMBIN  
 THROMBOPLASTIN  
 VEINS  
 BT #ANATOMY  
 RT BLOOD  
 RADIOGRAPHY  
 CAROTID SINUS REFLEX  
 CEREBRAL VASCULAR ACCIDENTS  
 CIRCULATORY SYSTEM  
 FAT EMBOLISMS  
 HEMODYNAMICS  
 HEMORRHAGES  
 VASCULAR SYSTEM  
**CARDS**  
 3405  
 NT PUNCHED CARDS  
**CARET WINGS**  
 0101 0104  
 BT #AIRFOILS  
 #PLANFORMS  
 WINGS  
 RT ARROW WINGS  
 DELTA WINGS  
**#CARGO**  
 0202 1103 1502 3110  
 UP FREIGHT  
 NT AIR CARGO  
 AIR MAIL  
 BAGGAGE  
 RT DELIVERY  
 FREIGHT COSTS  
 HAULING  
 MATERIALS HANDLING  
 RAILROAD HUMMING TESTS  
 RAPID TRANSIT SYSTEMS  
 #TRANSPORTATION  
 TRUCKS  
**CARGO AIRCRAFT**  
 0201 0204  
 NT C-2 AIRCRAFT  
 C-9 AIRCRAFT  
 C-46 AIRCRAFT  
 C-47 AIRCRAFT  
 C-54 AIRCRAFT  
 C-97 AIRCRAFT  
 C-118 AIRCRAFT  
 C-119 AIRCRAFT  
 C-121 AIRCRAFT  
 C-123 AIRCRAFT  
 C-124 AIRCRAFT  
 C-130 AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

C-131 AIRCRAFT  
 C-133 AIRCRAFT  
 C-135 AIRCRAFT  
 C-140 AIRCRAFT  
 C-141 AIRCRAFT  
 C-160 AIRCRAFT  
 CL-44 AIRCRAFT  
 BT #TRANSPORT AIRCRAFT  
 RT AIR CARGO  
 AIRCRAFT  
 CARGO SPACECRAFT  
 #COMMERCIAL AIRCRAFT  
 MATERIALS HANDLING  
 MILITARY AIRCRAFT  
 PASSENGER AIRCRAFT  
 UTILITY AIRCRAFT  
**CARGO SHIPS**  
 1106 3401  
 UP LOTS CARGO SHIPS  
 NT SAVANNAH NUCLEAR SHIP  
 TANKER SHIPS  
 BT SHIPS  
 #SURFACE VEHICLES  
 #WATER VEHICLES  
 RT NUCLEAR POWERED SHIPS  
 TANKER SHIPS  
**CARGO SPACECRAFT**  
 3110 3404  
 RT CARGO AIRCRAFT  
 FERRY SPACECRAFT  
 SPACECRAFT  
**CARGOMASTER AIRCRAFT**  
 USE C-133 AIRCRAFT  
**CARIBBEAN SEA**  
 1305  
 BT SEAS  
 RT GULF STREAM  
**CARIBOU AIRCRAFT**  
 USE DHC 4 AIRCRAFT  
**CARNITINE**  
 0403 0405 1808  
 BT #HETEROCYCLIC COMPOUNDS  
 VITAMINS  
**CARNOT CYCLE**  
 3303 3304  
 BT #CYCLES  
 THERMODYNAMIC CYCLES  
 RT ADIABATIC CONDITIONS  
 RANKINE CYCLE  
 STIRLING CYCLE  
**CAROTENE**  
 0403 0406 0409 1808 2306  
 BT #HYDROCARBONS  
 PIGMENTS  
 RT RETINENE  
 SKIN (ANATOMY)  
**CAROTID SINUS REFLEX**  
 0404  
 BT #REFLEXES  
 RT ARTERIES  
 BLOOD VESSELS  
 CARDIOVASCULAR SYSTEM  
 CIRCULATORY SYSTEM  
 NERVES  
 SINUSES  
 VASCULAR SYSTEM  
**CARRIAGES**  
 0202 1103 1502 1504 3202  
 RT CARTS  
 CHASSIS  
 DOLLIES  
 FRAMES  
 LANDING GEAR  
 SUPPORTS  
 UNDERCARRIAGES  
**CARRIER FREQUENCIES**  
 0702 0705  
 BT #FREQUENCIES  
 RT CARRIER WAVES  
 HARMONIC GENERATIONS  
 #MODULATION  
 MULTIPLEXING  
 RADIO FREQUENCIES  
 SWEEP FREQUENCY  
 UNIFIED S BAND  
**CARRIER INJECTION**  
 0906 1002 2602  
 BT #INJECTION  
 RT #ADDITIVES  
 CHARGE CARRIERS  
 CHARGE TRANSFER  
 ION INJECTION



# NASA THESAURUS (ALPHABETICAL LISTING)

MAJORITY CARRIERS  
 MINORITY CARRIERS  
 RADIATIVE RECOMBINATION  
 SEMICONDUCTORS (MATERIALS)  
 SUHL EFFECT  
 TRAVELING SOLVENT METHOD  
 CARRIER MOBILITY  
 0906 1002 2602  
 RT ELECTRON MOBILITY  
 HOLE MOBILITY  
 BT #ELECTRICAL PROPERTIES  
 #TRANSPORT PROPERTIES  
 RT ELECTRICAL RESISTIVITY  
 EXCITONS  
 HALL EFFECT  
 SUPERCONDUCTORS  
 CARRIER MODULATION  
 USE #MODULATION  
 CARRIER ROCKETS  
 USE #LAUNCH VEHICLES  
 CARRIER SYSTEMS  
 USE WIRELESS COMMUNICATIONS  
 CARRIER WAVES  
 0702 0703 0710 2402  
 UP SUBCARRIER WAVES  
 RT CARRIER FREQUENCIES  
 #MODULATION  
 RADIO SPECTRA  
 CARRIERS  
 0203 0207 1002 1104 2403  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIRCRAFT CARRIERS  
 CHARGE CARRIERS  
 ZENER EFFECT  
 CARTAN SPACE  
 1202 1902  
 RT COMPRESSIBLE FLOW  
 #FLUID FLOW  
 POTENTIAL FLOW  
 SPACE  
 CARTESIAN COORDINATES  
 1304 1902  
 BT #COORDINATES  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT OBLIQUE COORDINATES  
 CARTILAGE  
 0404  
 BT #ANATOMY  
 BONES  
 CONNECTIVE TISSUE  
 MUSCULOSKELETAL SYSTEM  
 LARYNX  
 RT  
 CARTOGRAPHY  
 USE MAPPING  
 CARTRIDGE ACTUATED DEVICES  
 USE ACTUATORS  
 #EXPLOSIVE DEVICES  
 CARTRIDGES  
 1502 3302 3401  
 RT CASES (CONTAINERS)  
 CONTAINERS  
 PACKAGES  
 PROJECTILES  
 #PROPELLANTS  
 CARTS  
 1101 1103  
 RT CARRIAGES  
 MATERIALS HANDLING  
 UNDERCARRIAGES  
 CASCADE CONTROL  
 1003  
 UP MULTILoop SYSTEMS  
 BT #AUTOMATIC CONTROL  
 FEEDBACK CONTROL  
 RT CASCADES  
 ELECTRONIC CONTROL  
 REMOTE CONTROL  
 CASCADE FLOW  
 0101 1202  
 BT #FLUID FLOW  
 RT CASCADES  
 TURBOCHARGE BLADES  
 CASCADE WIND TUNNELS  
 1110  
 BT HYPERVELOCITY WIND TUNNELS  
 #TEST FACILITIES  
 WIND TUNNELS  
 RT HYPERSONIC FLOW  
 SHOCK TUNNELS

CASCADES  
 0102 0104 0902 1001 1002 1201 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CASCADE CONTROL  
 CASCADE FLOW  
 #CIRCUITS  
 COSMIC RAY SHOWERS  
 ELECTRON PHOTON CASCADES  
 CASCADES (FLUID DYNAMICS)  
 USE FLUID DYNAMICS  
 CASCADE MOSFET  
 USE FIELD EFFECT TRANSISTORS  
 CASE BONDED PROPELLANTS  
 2702 2808  
 BT #PROPELLANTS  
 SOLID PROPELLANTS  
 RT AMMUNITION  
 COMPOSITE PROPELLANTS  
 EXPLOSIVES  
 HYBRID PROPELLANTS  
 INHIBITORS  
 PLASTICIZERS  
 SOLID ROCKET PROPELLANTS  
 CASE HISTORIES  
 0405 0408 0410 3402 3403  
 BT HISTORIES  
 RT ANTHROPOLOGY  
 BIOGRAPHY  
 CLINICAL MEDICINE  
 DOCUMENTATION  
 ETIOLOGY  
 PHENOMENOLOGY  
 RECORDS  
 SOCIOLOGY  
 CASES (CONTAINERS)  
 0202 0405 1103 1502 1504 3203 3403  
 NT ROCKET ENGINE CASES  
 RT BOXES (CONTAINERS)  
 CARTRIDGES  
 CONTAINERS  
 MISSILE BODIES  
 PACKAGES  
 CASING  
 1501 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COVERINGS  
 ENCLOSURE  
 JACKETS  
 LININGS  
 PIPES (TUBES)  
 SHEATHS  
 CASES  
 USE BARRELS (CONTAINERS)  
 CASPIAN SEA  
 1305  
 BT SEAS  
 RT COASTS  
 OCEANOGRAPHY  
 CASSEGRAIN ANTENNAS  
 0705 0901  
 BT ANTENNAS  
 #CONDUCTORS  
 RT ANTENNA DESIGN  
 PARABOLIC ANTENNAS  
 SUBREFLECTORS  
 TWO REFLECTOR ANTENNAS  
 CASSEGRAIN OPTICS  
 1411 1412 2306 2310  
 RT FIBER OPTICS  
 MIRRORS  
 OPTICS  
 REFLECTING TELESCOPES  
 CASSIOPEIA A  
 0705 3001  
 BT #CELESTIAL BODIES  
 NEBULAE  
 RADIO SOURCES (ASTRONOMY)  
 RT CASSIOPEIA CONSTELLATION  
 CASSIOPEIA CONSTELLATION  
 3001  
 BT CONSTELLATIONS  
 RT CASSIOPEIA A  
 CASTIGLIANO VARIATIONAL THEOREM  
 1902 3203  
 RT #THEOREMS  
 BT CALCULUS OF VARIATIONS  
 ENERGY METHODS  
 EULER-LAGRANGE EQUATION

# CATALYSIS

STRESS ANALYSIS  
 #STRUCTURAL ANALYSIS  
 CASTING  
 0602 1504 1701 1704 3404  
 NT CENTRIFUGAL CASTING  
 INVESTMENT CASTING  
 PROPELLANT CASTING  
 SLIP CASTING  
 BT #FORMING TECHNIQUES  
 BAKING  
 RT BILLETS  
 DIES  
 EXTRUDING  
 FORGING  
 INCLUSIONS  
 INGOTS  
 LIQUID METALS  
 MELTING  
 #METAL WORKING  
 METALLURGY  
 MICROSTRUCTURE  
 MOLDING MATERIALS  
 MOLDS  
 PINHOLES  
 POLYMERIC FILMS  
 POURING  
 SHRINKAGE  
 SOLIDIFICATION  
 CASTING SOLVENTS  
 USE PLASTICIZERS  
 CASTINGS  
 1504 1701 1704  
 NT INGOTS  
 PROPELLANT CASTING  
 RT BILLETS  
 #DEFECTS  
 DEGASSING  
 INCLUSIONS  
 MICROSTRUCTURE  
 MOLDS  
 PINHOLES  
 POURING  
 RISERS  
 SOLIDIFICATION  
 CASTOR 2 ENGINE  
 USE TX-354 ENGINE  
 CASTOR OIL  
 0403 0405 1808  
 BT #ALIPHATIC COMPOUNDS  
 OILS  
 #ORGANIC COMPOUNDS  
 FATTY ACIDS  
 RT  
 CASTS  
 0405  
 RT GAUZE  
 PLASTERS  
 SPLINTS  
 CASUALTIES  
 3401 3406  
 RT EVACUATING (TRANSPORTATION)  
 CATABOLISM  
 0403 0404  
 BT #METABOLISM  
 CATALASE  
 0403 1808  
 BT ENZYMES  
 RT #CELLS (BIOLOGY)  
 #PROTEINS  
 CATALOGS  
 0803 3405  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CATALOGS (PUBLICATIONS)  
 INDEXES (DOCUMENTATION)  
 LISTS  
 CATALOGS (PUBLICATIONS)  
 3405  
 NT ASTRONOMICAL CATALOGS  
 BT #DOCUMENTS  
 RT CATALOGS  
 CATEGORIES  
 DOCUMENTATION  
 INFORMATION DISSEMINATION  
 LIBRARIES  
 CATALYSIS  
 0403 0602  
 NT AUTOCATALYSIS  
 RT ACCELERATION  
 ACTIVATION  
 CATALYTIC ACTIVITY  
 REACTION KINETICS

# CATALYSTS

## CATALYSTS

0403 0603 1804 1808  
 UP RANEY NICKEL  
 BT ELECTROCATALYSTS  
 HOPCALITE (TRADEMARK)  
 ZIEGLER CATALYST  
 RT ACCELERATING AGENTS  
 #ADDITIVES  
 ENZYMES  
 GRIGNARD REACTIONS  
 HIGH ENERGY FUELS  
 INHIBITORS  
 INITIATORS  
 PLATINUM BLACK  
 PROPELLANT ADDITIVES  
 RETARDANTS  
 CATALYTIC ACTIVITY  
 0403 0603  
 RT ACTIVITY (BIOLOGY)  
 CATALYSIS  
 CATAPULTS  
 0203 1504 3102 3103  
 RT ROCKET CATAPULTS  
 BT #LAUNCHERS  
 RT AIRCRAFT LAUNCHING DEVICES  
 MISSILE LAUNCHERS  
 SEA LAUNCHING  
 CATARACTS  
 0405  
 BT EYE DISEASES  
 CATCHERS  
 0903 1506  
 RT ELECTRON BUNCHING  
 KLYSTRONS  
 OUTPUT  
 CATECHOLAMINE  
 0403 1808  
 BT #AMINES  
 CATEGORIES  
 1902  
 RT CATALOGS (PUBLICATIONS)  
 CLASSES  
 GROUPS  
 SECTIONS  
 CATENARIES  
 1902  
 BT ANALYTIC GEOMETRY  
 CURVES (GEOMETRY)  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 CATENARY CURTAINS  
 USE CURTAINS  
 CATHETERIZATION  
 0405  
 RT BLOOD VESSELS  
 INTRAVENOUS PROCEDURES  
 CATHETERMETERS  
 1406 1412  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 CATHODE RAY TUBES  
 0701 0702 0905 1506  
 RT #DISPLAY DEVICES  
 ELECTRON GUNS  
 ELECTRON OPTICS  
 IMAGE TUBES  
 MAGNETIC LENSES  
 OSCILLOSCOPES  
 PRINTERS  
 TELEVISION EQUIPMENT  
 VIDEO EQUIPMENT  
 CATHODES  
 0604 0904 0905 0906 1504 2304  
 RT CELL CATHODES  
 COLD CATHODE TUBES  
 COLD CATHODES  
 FREQUENCY MODULATION  
 PHOTOMULTIPLIERS  
 HOLLOW CATHODES  
 HOT CATHODES  
 PHOTOCATHODES  
 PHOTOMULTIPLIER TUBES  
 PHOTOTUBES  
 THERMIONIC CATHODES  
 TUBE CATHODES  
 TUNNEL CATHODES  
 BT #ELECTRODES  
 RT ANODES  
 ELECTRON EMISSION  
 FILAMENTS

## CATHOLITES

0603 0604 1202  
 BT #CONDUCTORS  
 ELECTROLYTES  
 RT ANOLYTES  
 CELL CATHODES  
 DIAPHRAGMS (MECHANICS)

## CATIONS

0603 0604 1804  
 NT FERRIC ION  
 MANGANESE IONS  
 METAL IONS  
 VANADYL RADICAL  
 BT CHARGED PARTICLES  
 #IONS  
 #PARTICLES  
 RT ANIONS  
 CELL CATHODES  
 IONIC MOBILITY

## CATS

0402  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES

## CATTLE

0402  
 BT CALVES  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES

## CAUCHY INTEGRAL FORMULA

1902  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES

## CAUCHY PROBLEM

1902  
 UP RIEMANN PROBLEM  
 RT DIFFERENTIAL EQUATIONS  
 PROBLEMS

## CAUCHY-RIEMANN EQUATIONS

1902  
 BT #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 REAL VARIABLES  
 RT ANALYTIC FUNCTIONS  
 PARTIAL DIFFERENTIAL EQUATIONS

## CAULKING

3407  
 RT PLUGGING  
 SEALING  
 WATERPROOFING

## CAUSES

2311 3407  
 RT EFFECTS  
 ORIGINS  
 SOURCES

## CAUSTICS

USE ALKALIES

## CAVES

1306  
 RT CAVITIES

## CAVITATION

USE CAVITATION FLOW  
 CAVITATION CORROSION  
 1503 1702

BT CORROSION  
 RT CAVITATION FLOW

## CAVITATION FLOW

0101 1202  
 UP CAVITATION  
 GASEOUS CAVITATION  
 BT #FLUID FLOW  
 TURBULENT FLOW  
 RT BUBBLES  
 CAVITATION CORROSION  
 EROSION  
 FLOW DISTRIBUTION  
 IMPINGEMENT  
 SEPARATED FLOW  
 SUPERCavitating FLOW  
 VORTICES  
 #WAKES  
 WATER

## CAVITIES

0405 0905 1104 1202 1305  
 UP BORES  
 RT APERTURES  
 CAVES  
 CELLS  
 CRACKS  
 #DEFECTS  
 DUCTS

# NASA THESAURUS (ALPHABETICAL LISTING)

GAS POCKETS  
 HOLE DISTRIBUTION (MECHANICS)  
 HOLES  
 HOLLOW  
 INTERSTICES  
 LEAKAGE  
 #OPENINGS  
 ORIFICES  
 OUTLETS  
 PASSAGEWAYS  
 PERFORATED PLATES  
 PERFORATED SHELLS  
 PERFORATION  
 PORTS (OPENINGS)  
 RECESSES  
 TOOTH DISEASES  
 VENTS  
 VOIDS  
 CAVITY RESONATORS  
 0705 0710 1601 2304 2310 2402 2403  
 UP RESONANT CAVITIES  
 BT RESONATORS  
 RT CIRCULATORS (PHASE SHIFT CIRCUITS)  
 #ELECTRON TUBES  
 KLYSTRONS  
 MAGNETRONS  
 MICROWAVE RESONANCE  
 MULTIMODE RESONATORS  
 #OSCILLATORS  
 RESONANT FREQUENCIES  
 TRAVELING WAVE MASERS  
 VELOCITY MODULATION  
 CAVITY VAPOR GENERATORS  
 1504  
 RT GENERATORS  
 CC-106 AIRCRAFT  
 USE CL-44 AIRCRAFT  
 CDC 160-A COMPUTER  
 0801 3404  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC 1604 COMPUTER  
 0801  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC 3100 COMPUTER  
 0801  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC 3200 COMPUTER  
 0801  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC 3600 COMPUTER  
 0801  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC 3800 COMPUTER  
 0801  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC 6000 SERIES COMPUTERS  
 COMPUTERS  
 DIGITAL COMPUTERS  
 CDC 8090 COMPUTER  
 0801  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CDC COMPUTERS  
 0801  
 NT CDC 160-A COMPUTER  
 CDC 1604 COMPUTER  
 CDC 3100 COMPUTER  
 CDC 3200 COMPUTER  
 CDC 3600 COMPUTER

# NASA THESAURUS (ALPHABETICAL LISTING)

CDC 3800 COMPUTER  
 CDC 6600 COMPUTER  
 CDC 8090 COMPUTER  
 CDC 6000 SERIES COMPUTERS  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 RT DIGITAL COMPUTERS  
 CDC 6000 SERIES COMPUTERS  
 0801  
 NT CDC 6600 COMPUTER  
 BT CDC COMPUTERS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 CEFOAM CHECKOUT EQUIPMENT  
 1108  
 RT CHECKOUT  
 TEST EQUIPMENT  
 CEILING (AIRCRAFT CAPABILITY)  
 0201 2003  
 RT AIRCRAFT SPECIFICATIONS  
 CEILINGS  
 FLIGHT ALTITUDE  
 FLIGHT CHARACTERISTICS  
 CEILINGS  
 0203 1103 2003  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CEILING (AIRCRAFT CAPABILITY)  
 CEILINGS (ARCHITECTURE)  
 CEILINGS (METEOROLOGY)  
 CEILINGS (ARCHITECTURE)  
 1103  
 RT BUILDINGS  
 CEILINGS  
 DIFFUSERS  
 FLOORS  
 INSULATION  
 PANELS  
 #REFLECTORS  
 CEILINGS (METEOROLOGY)  
 2003  
 UP ZERO-ZERO WEATHER  
 RT AIRCRAFT LANDING  
 CEILINGS  
 CLOUD HEIGHT INDICATORS  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 VISIBILITY  
 CEILOMETERS  
 USE CLOUD HEIGHT INDICATORS  
 CELESCOPES  
 1406 1412 3001  
 BT IMAGE CONVERTERS  
 MIRRORS  
 #OPTICAL EQUIPMENT  
 #TELESCOPES  
 RT ASTRONOMICAL TELESCOPES  
 SOLAR INSTRUMENTS  
 #CELESTIAL BODIES  
 1901 3001  
 NT A STARS  
 ACHONDrites  
 ALAIS METEORITE  
 ANDROMEDA GALAXIES  
 AQUARID METEORIDS  
 AREND-ROLAND COMET  
 ARIETID METEORIDS  
 AROOS METEORITE  
 ASTEROIDS  
 AUSTRALITES  
 B STARS  
 BEDIASITES  
 BINARY STARS  
 BOLIDES  
 BONDOR METEORITE  
 BRUDERHEIM METEORITE  
 CARBONACEOUS METEORITES  
 CASSIOPEIA A  
 CEPHEID VARIABLES  
 CERES ASTEROID  
 CHONDRITES  
 COLD BOKKEVELD METEORITE  
 COMETS  
 CRAB NEBULA  
 CYBILLID METEORIDS  
 DEIMOS  
 DRACONID METEORIDS  
 DWARF STARS  
 DYALPUR METEORITE  
 EARLY STARS

EARTH (PLANET)  
 ECLIPSING BINARY STARS  
 EXTARS  
 GALAXIES  
 GEMINID METEORIDS  
 GIACOBINI-ZINNER COMET  
 GIANT STARS  
 HARLETON METEORITE  
 HERCULES NOVA  
 HOT STARS  
 HUMASON COMET  
 HVITTIS CHONDRITE  
 IAPETUS  
 ICARUS ASTEROID  
 INFRARED STARS  
 IRON METEORITES  
 IVUNA METEORITE  
 JUPITER (PLANET)  
 KAPOETA ACHONDRITE  
 LAMBDA TAURI STARS  
 LAZAREV METEORITE  
 LEONID METEORIDS  
 MAGNETIC STARS  
 MAIN SEQUENCE STARS  
 MARS (PLANET)  
 MERCURY (PLANET)  
 METEORITES  
 METEOROID DUST CLOUDS  
 METEOROID SHOWERS  
 METEORIDS  
 MICROMETEORIDS  
 MILKY WAY GALAXY  
 MOON  
 MOREHOUSE COMET  
 MRKOS COMET  
 MURRAY METEORITE  
 NATURAL SATELLITES  
 NEBULAE  
 NEPTUNE (PLANET)  
 NEUTRON STARS  
 NORTON COUNTY ACHONDRITE  
 NOVAE  
 O STARS  
 ODESSA METEORITE  
 OKHANSK METEORITE  
 OMICRON CETI STAR  
 ORGUEIL METEORITE  
 ORIONID METEORIDS  
 PANTAR CHONDRITES  
 PERSEID METEORIDS  
 PHOBOS  
 PLANETARY NEBULAE  
 PLANETS  
 PLUTO (PLANET)  
 POLLUX STAR  
 PRASEPPE STAR CLUSTERS  
 PRIBRAM METEORITE  
 PROTOSTARS  
 PULSARS  
 QUADRANTID METEORIDS  
 QUASARS  
 RADIO GALAXIES  
 RADIO METEORS  
 RADIO SOURCES (ASTRONOMY)  
 RADIO STARS  
 SATURN (PLANET)  
 SCHWASSMANN-WACHMANN COMET  
 SIKHOTE-ALIN METEORITE  
 SOLAR SYSTEM  
 SPIRAL GALAXIES  
 SPORADIC METEORIDS  
 STAR CLUSTERS  
 STARS  
 STONY METEORITES  
 SUBDWARF STARS  
 SUN  
 SUPERGIANT STARS  
 SUPERNOVAE  
 T TAURI STARS  
 TAURID METEORIDS  
 TEKTTIES  
 TONK METEORITE  
 TUNGUSK METEORITE  
 URANUS (PLANET)  
 VAN BIESBROECK STAR  
 VARIABLE STARS  
 VENUS (PLANET)  
 VESTA ASTEROID  
 VIRGO STAR CLUSTER  
 WASHINGTON COUNTY METEORITE  
 WHITE DWARF STARS  
 YURTUK METEORITE

## CELESTIAL REFERENCE SYSTEMS

ZETA AURIGAE STAR  
 ZODIACAL DUST  
 RT ASTRODYNAMICS  
 ASTRONOMICAL OBSERVATORIES  
 ASTRONOMY  
 ASTROPHYSICS  
 BODIES  
 CELESTIAL MECHANICS  
 CELESTIAL NAVIGATION  
 GRAVITATIONAL WAVES  
 INTERSTELLAR MATTER  
 #ORBITS  
 SATURN RINGS  
 #SPACE FLIGHT  
 UNIVERSE  
 CELESTIAL GEODESY  
 1304 1901 3001  
 (DETERMINATION OF THE FORM OF THE  
 EARTH, OF THE EARTH'S GRAVITATIONAL  
 FIELD, AND OF RELATIVE POSITIONS OF  
 SATELLITE TRAJECTORIES)  
 BT GEODESY  
 RT EXPLORER 29 SATELLITE  
 EXPLORER 36 SATELLITE  
 GEODETIC SATELLITES  
 GEOS-C SATELLITE  
 GEOS 1 SATELLITE  
 GEOS 2 SATELLITE  
 #TIME  
 CELESTIAL MECHANICS  
 1309 1901 2308 3001  
 BT #CLASSICAL MECHANICS  
 SPACE MECHANICS  
 RT ASTRODYNAMICS  
 ASTRONOMY  
 ASTROPHYSICS  
 #CELESTIAL BODIES  
 EPHEMERIDES  
 #EQUATIONS OF MOTION  
 FOUR BODY PROBLEM  
 GRAVITATIONAL WAVES  
 HYPERBOLIC TRAJECTORIES  
 LONG TERM EFFECTS  
 MANY BODY PROBLEM  
 MECHANICS (PHYSICS)  
 ORBITAL MECHANICS  
 #ORBITS  
 PERTURBATION THEORY  
 PLANETS  
 ROCHE LIMIT  
 SOLAR SYSTEM  
 STARS  
 SUN  
 THREE BODY PROBLEM  
 TRAJECTORY ANALYSIS  
 TROJAN ORBITS  
 TWO BODY PROBLEM  
 CELESTIAL NAVIGATION  
 1901 2103  
 UP STELLAR INERTIAL NAVIGATION  
 NT ASTROGUIDE NAVIGATION SYSTEM  
 ASTRONAVIGATION  
 BT #NAVIGATION  
 RT AIR NAVIGATION  
 #CELESTIAL BODIES  
 CELESTIAL REFERENCE SYSTEMS  
 INERTIAL NAVIGATION  
 INJECTION GUIDANCE  
 INTERPLANETARY NAVIGATION  
 POLAR NAVIGATION  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 SOLAR POSITION  
 SPACE NAVIGATION  
 SPACECRAFT GUIDANCE  
 STAR TRACKERS  
 SURFACE NAVIGATION  
 CELESTIAL OBSERVATION  
 USE ASTRONOMY  
 CELESTIAL REFERENCE SYSTEMS  
 1901 2103 3001 3009 3104  
 RT AIR NAVIGATION  
 ASTRONOMICAL MAPS  
 AZIMUTH  
 CELESTIAL NAVIGATION  
 CELESTIAL SPHERE  
 #COORDINATES  
 GEOCENTRIC COORDINATES  
 INERTIAL REFERENCE SYSTEMS  
 INTERPLANETARY NAVIGATION  
 INTERSTELLAR TRAVEL  
 PLANETOCENTRIC COORDINATES

# CELESTIAL SPHERE

REFERENCE SYSTEMS  
SOLAR LONGITUDE  
CELESTIAL SPHERE  
1901 1904 3006  
BT BODIES OF REVOLUTION  
SPHERES  
#SYMMETRICAL BODIES  
RT ASTRONOMICAL MAPS  
CELESTIAL REFERENCE SYSTEMS  
CONSTELLATIONS  
HORIZON  
ORBITAL POSITION ESTIMATION  
PLANISPHERES  
ZENITH  
CELL ANODES  
0302 0604  
BT ANODES  
#ELECTRODES  
RT ANIONS  
ANOLYTES  
CELL CATHODES  
CELL CATHODES  
0302 0604  
BT CATHODES  
#ELECTRODES  
RT CATHOLYTES  
CATIONS  
CELL ANODES  
ELECTRODEPOSITION  
CELL DIVISION  
0404 0406 0407  
RT DIVISION  
REPRODUCTION  
CELLOPHANE  
1802 1805  
RT CELLULOSE  
POLYMERS  
CELLS  
0302 0406 0904 1104 3202 3402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ACTIVATION (BIOLOGY)  
AUSTIN CELL  
CAVITIES  
#CELLS (BIOLOGY)  
#COMPARTMENTS  
CORES  
#ELECTROCHEMICAL CELLS  
ELECTROLYTIC CELLS  
FILLERS  
PUCEL CELLS  
HEXAGONAL CELLS  
HONEYCOMB STRUCTURES  
KERR CELLS  
PARTICLE IN CELL TECHNIQUE  
PHOTOCONDUCTIVE CELLS  
PHOTOELECTRIC CELLS  
PHOTOVOLTAIC CELLS  
POROUS MATERIALS  
RESOLUTION CELL  
SOLAR CELLS  
TISSUES (BIOLOGY)  
TOPOLOGY  
#CELLS (BIOLOGY)  
0404 0406 0409  
UP BIOLOGICAL CELLS  
NT AXONS  
CARBOXYHEMOGLOBIN  
CHROMOSOMES  
COLLAGENS  
CORPUSCLES  
EOSINOPHILS  
ERYTHROCYTES  
FIBROBLASTS  
GANGETOCYTES  
HEMATOPOIESIS  
HEMOCYTES  
HEMOGLOBIN  
LEUKOCYTES  
LYMPHOCYTES  
MACROPHAGES  
MITOCHONDRIA  
NEUROBLASTS  
NEURONS  
OXYHEMOGLOBIN  
PROTOPLASTS  
RETICULOCYTES  
RT CANCER  
CATALASE  
CELLS  
CHLOROPHYLLS

CHLOROPLASTS  
CYTOGENESIS  
CYTOLOGY  
GANGLIA  
KREBS CYCLE  
MITOSIS  
MUTATIONS  
NEUROGLIA  
NUCLEI  
PLASMOLYSIS  
TISSUES (BIOLOGY)  
CELLULOSE  
0403 0409 1808  
RT PORTISAN (TRADEMARK)  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
POLYSACCHARIDES  
RT CELLOPHANE  
LIGNIN  
MASONITE (TRADEMARK)  
TENITE  
WOOD  
CELLULOSE NITRATE  
1808 2702 3302  
UP NITROCELLULOSE  
PYROXYLIN  
BT #ESTERS  
EXPLOSIVES  
NITRATES  
#NITROGEN COMPOUNDS  
ORGANIC NITRATES  
RT DOUBLE BASE PROPELLANTS  
DOUBLE BASE ROCKET PROPELLANTS  
CELSIUS TEMPERATURE SCALE  
USE TEMPERATURE SCALES  
CEMENTATION  
1306 1704  
RT ADHESIVE BONDING  
AGGLOMERATION  
#BONDING  
#HEATING  
PRECIPITATION (CHEMISTRY)  
CEMENTITE  
1701 1704 1804  
BT CARBIDES  
#CARBON COMPOUNDS  
RT IRON ALLOYS  
MICROSTRUCTURE  
PEARLITE  
STEELS  
CEMENTS  
1805  
RT ADHESIVES  
#BINDERS (MATERIALS)  
BRICKS  
CONCRETES  
CONSTRUCTION MATERIALS  
GROUT  
MASONRY  
MORTARS (MATERIAL)  
SEALING  
CEMS SYSTEM  
USE CENTRAL ELECTRONIC MANAGEMENT  
SYSTEM  
CENSORED DATA (MATHEMATICS)  
1902 1905  
BT #DATA PROCESSING  
RT APPROXIMATION  
DATA  
ERROR ANALYSIS  
PROBABILITY DENSITY FUNCTIONS  
RELIABILITY  
SAMPLING  
#STATISTICAL ANALYSIS  
STATISTICAL DISTRIBUTIONS  
CENTAUR LAUNCH VEHICLE  
3004 3403  
UP CENTAUR VEHICLE  
BT ATLAS CENTAUR LAUNCH VEHICLE  
NT #LAUNCH VEHICLES  
#ROCKET VEHICLES  
RT ATLAS D ICBM  
CENTAUR PROJECT  
LIQUID PROPELLANT ROCKET ENGINES  
SATURN PROJECT  
YLR-115 ENGINE  
CENTAUR PROJECT  
3004 3409  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT ATLAS CENTAUR LAUNCH VEHICLE

# NASA THESAURUS (ALPHABETICAL LISTING)

CENTAUR LAUNCH VEHICLE  
#LAUNCH VEHICLES  
MARINER PROGRAM  
RL-10 ENGINES  
SURVEYOR PROJECT  
CENTAUR VEHICLE  
USE CENTAUR LAUNCH VEHICLE  
CENTAURUS CONSTELLATION  
3001  
BT CONSTELLATIONS  
CENTER OF GRAVITY  
1309 2311  
UP BARYCENTER  
RT CENTROIDS  
GRAVITATIONAL FIELDS  
#MASS  
MOMENTS OF INERTIA  
CENTER OF PRESSURE  
1202 1204  
RT HYDROSTATIC PRESSURE  
MOMENTS OF INERTIA  
PRESSURE DISTRIBUTION  
PRESSURE HEADS  
CENTERBODIES  
3105 3110  
RT AFTERBODIES  
BODIES  
CYLINDRICAL BODIES  
#FOREBODIES  
FUSELAGES  
CENTERS  
1902 2311 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COLOR CENTERS  
CONCENTRICITY  
FOCI  
LOCI  
WORLD DATA CENTERS  
CENTIGRADE TEMPERATURE SCALE  
USE TEMPERATURE SCALES  
CENTRAL AMERICA  
1305  
RT NORTH AMERICA  
#REGIONS  
CENTRAL ELECTRONIC MANAGEMENT SYSTEM  
0702 0803 1101 1108 3406  
UP CEMS SYSTEM  
RT #DATA PROCESSING  
#MANAGEMENT  
SYSTEMS  
CENTRAL NERVOUS SYSTEM  
0404 0408  
NT BRAIN  
BRAIN STEM  
CEREBELLUM  
CEREBRAL CORTEX  
CEREBRUM  
HIPPOCAMPUS  
SPINAL CORD  
SPIRE  
THALAMUS  
BT #NERVOUS SYSTEM  
CENTRAL NERVOUS SYSTEM DEPRESSANTS  
0403 0405 0408  
BT DEPRESSANTS  
#DRUGS  
RT ANOABRBITAL  
CENTRAL NERVOUS SYSTEM STIMULANTS  
0403 0405 0408  
BT #DRUGS  
STIMULANT  
RT AMPHETAMINES  
CENTRAL PROCESSING UNITS  
0801  
UP PROCESSORS (COMPUTERS)  
RT #COMPUTER STORAGE DEVICES  
COMPUTERS  
CONTROL UNITS (COMPUTERS)  
LOGIC CIRCUITS  
REGISTERS (COMPUTERS)  
CENTRIFUGAL CASTING  
1504 1704 3404  
BT CASTING  
#FORMING TECHNIQUES  
RT INVESTMENT CASTING  
CENTRIFUGAL COMPRESSORS  
1202 1504  
BT COMPRESSORS  
#TURBOMACHINERY  
RT BLOWERS

# NASA THESAURUS (ALPHABETICAL LISTING)

COMPRESSOR BLADES  
 COMPRESSOR ROTORS  
 IMPELLERS  
 PUMP IMPELLERS  
 #PUMPS  
 RADIAL FLOW  
 ROTORS  
 SUPERCHARGERS  
 TURBOCOMPRESSORS  
 CENTRIFUGAL FORCE  
 2308 2311  
 RT ANGULAR ACCELERATION  
 CENTRIFUGES  
 CENTRIPETAL FORCE  
 FORCE  
 CENTRIFUGAL PUMPS  
 1501 1504  
 BT #PUMPS  
 #TURBOMACHINERY  
 RT AXIAL FLOW PUMPS  
 FUEL PUMPS  
 IMPELLERS  
 PUMP IMPELLERS  
 TURBINE PUMPS  
 TURBOCOMPRESSORS  
 CENTRIFUGES  
 0403 0501 0602 1504  
 NT HUMAN CENTRIFUGES  
 RT CENTRIFUGAL FORCE  
 CENTRIFUGING  
 CENTRIPETAL FORCE  
 CLASSIFIERS  
 CONCENTRATORS  
 EXTRACTION  
 FLIGHT SIMULATORS  
 FLUID FILTERS  
 HIGH GRAVITY ENVIRONMENTS  
 #SEPARATORS  
 SPACE SIMULATORS  
 TEST EQUIPMENT  
 TRAINING SIMULATORS  
 CENTRIFUGING  
 0403 0501 0602 1504  
 RT CENTRIFUGES  
 CONCENTRATING  
 EXTRACTION  
 MATERIALS RECOVERY  
 SEPARATION  
 SWIRLING  
 CENTRIFUGING STRESS  
 0401 0408  
 BT ACCELERATION STRESSES (PHYSIOLOGY)  
 #INVERSIONS  
 #STRESS (PHYSIOLOGY)  
 TEMPERATURE INVERSIONS  
 RT ACCELERATION TOLERANCE  
 CENTRIPETAL FORCE  
 2308 2311  
 RT ANGULAR ACCELERATION  
 CENTRIFUGAL FORCE  
 CENTRIFUGES  
 FORCE  
 REVOLVING  
 CENTROIDS  
 1902 2308 3203  
 RT CENTER OF GRAVITY  
 MOMENTS OF INERTIA  
 CENTURION AIRCRAFT  
 USE CESSNA 210 AIRCRAFT  
 CEPHALALGIA  
 USE HEADACHE  
 CEPHALOPODS  
 0402  
 NT MOLLUSKS  
 OCTOPOUSES  
 SNAILS  
 BT #ANIMALS  
 ARTHROPODS  
 INVERTEBRATES  
 CEPHEID VARIABLES  
 3001  
 BT #CELESTIAL BODIES  
 STARS  
 VARIABLE STARS  
 RT CEPHEUS CONSTELLATION  
 CEPHEUS CONSTELLATION  
 3001  
 BT CONSTELLATIONS  
 RT CEPHEID VARIABLES  
 CERAMAL PROTECTIVE COATINGS  
 USE CERMETS  
 PROTECTIVE COATINGS

CERAMALS  
 USE CERMETS  
 CERAMIC BONDING  
 0602 1507 1704 1801  
 BT #BONDING  
 CERAMIC COATINGS  
 1801 1802  
 (COATINGS CONSISTING OF CERAMIC MATERIALS)  
 BT #COATINGS  
 INORGANIC COATINGS  
 PROTECTIVE COATINGS  
 RT FINISHES  
 METAL COATINGS  
 PORCELAIN  
 SPRAYED COATINGS  
 VACUUM DEPOSITION  
 CERAMIC HONEYCOMBS  
 1801 3202  
 RT HONEYCOMB CORES  
 HONEYCOMB STRUCTURES  
 CERAMIC NUCLEAR FUELS  
 1801 2203  
 BT CERAMICS  
 #FUELS  
 NUCLEAR FUELS  
 RT CARBIDES  
 CERMETS  
 NITRIDES  
 PLUTONIUM COMPOUNDS  
 PLUTONIUM OXIDES  
 SOL-GEL PROCESSES  
 THORIUM COMPOUNDS  
 URANIUM CARBIDES  
 URANIUM COMPOUNDS  
 URANIUM OXIDES  
 CERAMICS  
 1801  
 NT CERAMIC NUCLEAR FUELS  
 PORCELAIN  
 PYROCERAM (TRADEMARK)  
 RT ABRASIVES  
 BAKELITE (TRADEMARK)  
 BRICKS  
 CERMETS  
 CLAYS  
 DIELECTRICS  
 FRIT  
 GLASS  
 GLAZES  
 MASONRY  
 MATERIALS SCIENCE  
 MORTARS (MATERIAL)  
 #PYROLYTIC MATERIALS  
 REFRACTORIES  
 #REFRACTORY MATERIALS  
 SILICON DIOXIDE  
 TILES  
 CERCOCEBUS MONKEYS  
 0402  
 BT #ANIMALS  
 CHIMPANZEES  
 MAMMALS  
 MONKEYS  
 VERTEBRATES  
 CEREABELLUM  
 0404  
 BT #ANATOMY  
 BRAIN  
 CENTRAL NERVOUS SYSTEM  
 #NERVOUS SYSTEM  
 CEREBRAL CORTEX  
 0404  
 BT #ANATOMY  
 BRAIN  
 CENTRAL NERVOUS SYSTEM  
 #NERVOUS SYSTEM  
 RT CORTEXES  
 CEREBRAL VASCULAR ACCIDENTS  
 0402 0405  
 RT CARDIOVASCULAR SYSTEM  
 STROKES  
 CEREBROSPINAL FLUID  
 0403 0404  
 BT #BODY FLUIDS  
 RT BRAIN  
 FLUIDS  
 CEREBRUM  
 0404  
 BT #ANATOMY  
 BONES  
 BRAIN

## CERMETS

CENTRAL NERVOUS SYSTEM  
 MUSCULOSKELETAL SYSTEM  
 #NERVOUS SYSTEM  
 CERENKOV COUNTERS  
 1406  
 BT COUNTERS  
 #MEASURING INSTRUMENTS  
 RADIATION COUNTERS  
 RT CERENKOV RADIATION  
 SCINTILLATION COUNTERS  
 CERENKOV EFFECT  
 USE CERENKOV RADIATION  
 CERENKOV RADIATION  
 0710 2310 2402 2403  
 UP CERENKOV EFFECT  
 BT #ELECTROMAGNETIC RADIATION  
 RT BREMSSTRAHLUNG  
 CERENKOV COUNTERS  
 CORPUSCULAR RADIATION  
 COSMIC RAYS  
 GAMMA RAYS  
 LIGHT (VISIBLE RADIATION)  
 NUCLEAR RADIATION  
 ULTRAVIOLET RADIATION  
 CERES ASTEROID  
 3001 3008  
 BT ASTEROIDS  
 #CELESTIAL BODIES  
 CERESIN  
 1806 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 PARAFFINS  
 WAXES  
 CERIUM  
 0603 1703  
 NT CERIUM ISOTOPES  
 CERIUM 137  
 CERIUM 144  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS  
 CERIUM COMPOUNDS  
 0603 1804  
 NT BASTNASITE  
 CERIUM OXIDES  
 BT #RARE EARTH COMPOUNDS  
 RT METAL COMPOUNDS  
 CERIUM ISOTOPES  
 0603 1703 2406  
 NT CERIUM 137  
 CERIUM 144  
 BT CERIUM  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RARE EARTH ELEMENTS  
 CERIUM OXIDES  
 0603 1703  
 BT CERIUM COMPOUNDS  
 METAL OXIDES  
 OXIDES  
 #RARE EARTH COMPOUNDS  
 CERIUM 137  
 0603 1703 2406  
 BT CERIUM  
 CERIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 RARE EARTH ELEMENTS  
 CERIUM 144  
 0603 2406  
 BT CERIUM  
 CERIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 RARE EARTH ELEMENTS  
 CERMETS  
 1701 1801 3305  
 UP CERAMAL PROTECTIVE COATINGS  
 CERAMALS  
 BT #COMPOSITE MATERIALS  
 RT CERAMIC NUCLEAR FUELS  
 CERAMICS  
 HEAT RESISTANT ALLOYS  
 POWDER METALLURGY  
 REFRACTORIES

# CERTIFICATION

#REFRACTORY MATERIALS  
 CERTIFICATION  
 3404 3406  
 RT AIRCRAFT RELIABILITY  
 CHECKOUT  
 EVALUATION  
 FLIGHT TESTS  
 PERFORMANCE TESTS  
 PHYSIOLOGICAL TESTS  
 PSYCHOLOGICAL TESTS  
 QUALIFICATIONS  
 QUALITY CONTROL  
 #SELECTION  
 CESIUM  
 0603 1703  
 NT CESIUM ISOTOPES  
 CESIUM VAPOR  
 CESIUM 133  
 CESIUM 134  
 CESIUM 137  
 CESIUM 144  
 BT ALKALI METALS  
 #CHEMICAL ELEMENTS  
 #METALS  
 CESIUM ALLOYS  
 1701 1704  
 BT #ALLOYS  
 RT ALKALI METALS  
 CESIUM ANTIMONIDES  
 0603 1804  
 BT ANTIMONIDES  
 #ANTIMONY COMPOUNDS  
 #CESIUM COMPOUNDS  
 CESIUM BROMIDES  
 0603 1804  
 BT ALKALI HALIDES  
 BROMIDES  
 BROMINE COMPOUNDS  
 #CESIUM COMPOUNDS  
 CESIUM HALIDES  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 #CESIUM COMPOUNDS  
 0603 1804  
 NT CESIUM ANTIMONIDES  
 CESIUM BROMIDES  
 CESIUM FLUORIDES  
 CESIUM HALIDES  
 CESIUM HYDRIDES  
 CESIUM IODIDES  
 CESIUM OXIDES  
 RT ALKALI METAL COMPOUNDS  
 METAL COMPOUNDS  
 METAL FUELS  
 CESIUM DIODES  
 0301 0904 2501  
 BT #DIODES  
 THERMIONIC DIODES  
 RT CESIUM PLASMA  
 PLASMA DIODES  
 THERMIONIC CONVERTERS  
 CESIUM ENGINES  
 0301 2808  
 BT #ENGINES  
 ION ENGINES  
 RT CESIUM PLASMA  
 ELECTROSTATIC ENGINES  
 CESIUM FLUORIDES  
 0603 1804  
 BT ALKALI HALIDES  
 #CESIUM COMPOUNDS  
 CESIUM HALIDES  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 CESIUM HALIDES  
 0603 1804  
 NT CESIUM BROMIDES  
 CESIUM FLUORIDES  
 CESIUM IODIDES  
 BT ALKALI HALIDES  
 #CESIUM COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 CESIUM HYDRIDES  
 0603 1804  
 BT #CESIUM COMPOUNDS  
 HYDRIDES

#HYDROGEN COMPOUNDS  
 METAL HYDRIDES  
 CESIUM IODIDES  
 0603 1804  
 BT ALKALI HALIDES  
 #CESIUM COMPOUNDS  
 CESIUM HALIDES  
 HALIDES  
 #HALOGEN COMPOUNDS  
 IODIDES  
 IODINE COMPOUNDS  
 METAL HALIDES  
 CESIUM ION  
 0603 1804  
 BT #IONS  
 BT CESIUM PLASMA  
 CESIUM ISOTOPES  
 0603 1703 2406  
 NT CESIUM 133  
 CESIUM 134  
 CESIUM 137  
 CESIUM 144  
 BT ALKALI METALS  
 CESIUM  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 CESIUM OXIDES  
 0603 1804  
 BT #CESIUM COMPOUNDS  
 #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 CESIUM PLASMA  
 2502  
 BT METALLIC PLASMAS  
 #PLASMAS (PHYSICS)  
 RT CESIUM DIODES  
 CESIUM ENGINES  
 CESIUM ION  
 CESIUM VAPOR  
 #PARTICLES  
 THERMIONIC CONVERTERS  
 CESIUM VAPOR  
 0603  
 BT ALKALI METALS  
 CESIUM  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 #VAPORS  
 RT CESIUM PLASMA  
 MERCURY VAPOR  
 CESIUM 133  
 0603 1703 2406  
 BT ALKALI METALS  
 CESIUM  
 CESIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 #METALS  
 NUCLIDES  
 CESIUM 134  
 0603 1703 2406  
 BT ALKALI METALS  
 CESIUM  
 CESIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 CESIUM 137  
 0603 1703 2406  
 BT ALKALI METALS  
 CESIUM  
 CESIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 CESIUM 144  
 0603 1703 2406  
 BT ALKALI METALS  
 CESIUM  
 CESIUM ISOTOPES  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 CESSNA AIRCRAFT  
 0204 0207  
 NT A-37 AIRCRAFT

# NASA TREASURUS (ALPHABETICAL LISTING)

CESSNA 172 AIRCRAFT  
 CESSNA 205 AIRCRAFT  
 CESSNA 210 AIRCRAFT  
 CESSNA 336 AIRCRAFT  
 CESSNA L-19 AIRCRAFT  
 NH-41 HELICOPTER  
 T-37 AIRCRAFT  
 U-3 AIRCRAFT  
 RT AIRCRAFT  
 CESSNA 172 AIRCRAFT  
 0204  
 BT CESSNA AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 CESSNA 205 AIRCRAFT  
 0204  
 BT CESSNA AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 CESSNA 210 AIRCRAFT  
 0204  
 UP CENTURION AIRCRAFT  
 BT CESSNA AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 CESSNA 336 AIRCRAFT  
 0204  
 BT CESSNA AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 CESSNA L-19 AIRCRAFT  
 0204  
 BT CESSNA AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 CETANE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 CETYL COMPOUNDS  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKYL COMPOUNDS  
 CEYLON  
 1305  
 RT ASIA  
 NATIONS  
 CF-104 AIRCRAFT  
 USE CANADAIR AIRCRAFT  
 F-104 AIRCRAFT  
 CF-700 ENGINE  
 2805  
 BT AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 TURBOPAN ENGINES  
 TURBOJET ENGINES  
 RT VERTICAL TAKEOFF AIRCRAFT  
 CH-3 HELICOPTER  
 0206 0207  
 BT HELICOPTERS  
 MILITARY HELICOPTERS  
 PASSENGER AIRCRAFT  
 RIGID ROTOR HELICOPTERS  
 ROTARY WING AIRCRAFT  
 SIKORSKY AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT S-61 HELICOPTER  
 CH-21 HELICOPTER  
 0206 0207  
 UP H-21 HELICOPTER  
 SHAWNEE HELICOPTER  
 WORKHORSE HELICOPTER  
 BT BOEING AIRCRAFT  
 HELICOPTERS  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT

NASA THESAURUS (ALPHABETICAL LISTING)

CH-34 HELICOPTER  
0206 0207  
UP CHOCTAW HELICOPTER  
H-34 HELICOPTER  
BT HELICOPTERS  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
RT S-58 HELICOPTER  
CH-46 HELICOPTER  
0206 0207  
UP CH-113 HELICOPTER  
HRB-1 HELICOPTER  
SEA KNIGHT HELICOPTER  
VOYAGEUR HELICOPTER  
BT BOEING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
TANDEM ROTOR HELICOPTERS  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
CH-47 HELICOPTER  
0206 0207  
UP CHINOOK HELICOPTER  
HC-1 HELICOPTER  
BT BOEING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
TANDEM ROTOR HELICOPTERS  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
CH-53 HELICOPTER  
USE H-53 HELICOPTER  
CH-54 HELICOPTER  
0206 0207  
UP S-64 HELICOPTER  
SIKORSKY S-64 HELICOPTER  
SKYCRANE HELICOPTER  
BT HELICOPTERS  
MILITARY HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
CH-113 HELICOPTER  
USE CH-46 HELICOPTER  
CHAFF  
0705 3401  
UP RADAR CHAFF  
BT #COUNTERMEASURES  
ELECTRONIC COUNTERMEASURES  
RT DECEPTION  
RADAR ECHOES  
CHAINS  
1101 1104 1502 1504 3204  
(EXCLUDES CHEMICAL BONDS AND NUCLEAR REACTIONS)  
BT BARRIERS  
CABLES (ROPES)  
#FASTENERS  
LINKS  
MOLECULAR CHAINS  
CHAIRS  
USE SEATS  
#CHALCOGENIDES  
0603 1804  
NT AKERMANITE  
ALKALINE EARTH OXIDES  
ALUMINUM OXIDES  
ANATASE  
BARIUM OXIDES  
BARIUM SULFIDES  
BERYLLIUM OXIDES  
BISMUTH OXIDES  
BISMUTH SULFIDES  
BISMUTH TELLURIDES  
BORON OXIDES  
BRUCITE  
CADMIUM SELENIDES  
CADMIUM SULFIDES  
CADMIUM TELLURIDES  
CALCIUM OXIDES  
CALCIUM SULFIDES  
CARBON DIOXIDE  
CARBON DISULFIDE

CARBON MONOXIDE  
CESIUM OXIDES  
CHLORINE OXIDES  
CHRONITES  
CHROMIUM OXIDES  
COBALT OXIDES  
COESITE  
COPPER OXIDES  
COPPER SELENIDES  
COPPER SULFIDES  
DIOXIDES  
DISULFIDES  
ENARGITE  
ENSTATITE  
FLINT  
GALLIUM SELENIDES  
GERMANIUM OXIDES  
HAFNIUM OXIDES  
HEAVY WATER  
HEMATITE  
HOPCALITE (TRADEMARK)  
HYDROGEN PEROXIDE  
HYDROGEN SULFIDE  
ILMENITE  
INDIUM SULFIDES  
INDIUM TELLURIDES  
INORGANIC PEROXIDES  
INORGANIC SULFIDES  
IRON OXIDES  
LANTHANUM OXIDES  
LANTHANUM TELLURIDES  
LEAD OXIDES  
LEAD SELENIDES  
LEAD SULFIDES  
LEAD TELLURIDES  
LITHIUM OXIDES  
MAGNESIUM OXIDES  
MAGNETITE  
MANGANESE OXIDES  
MERCURY OXIDES  
MERCURY TELLURIDES  
METAL OXIDES  
MOLYBDENUM DISULFIDES  
MOLYBDENUM OXIDES  
MOLYBDENUM SULFIDES  
MUSCOVITE  
NEPHELITE  
NICKEL OXIDES  
NIOBIUM OXIDES  
NITRIC OXIDE  
NITROGEN DIOXIDE  
NITROGEN OXIDES  
NITROGEN TETROXIDE  
NITROUS OXIDES  
NORBERGITE  
OXIDES  
PERICLASE  
PEROXIDES  
PHOSPHORUS OXIDES  
PLATINUM OXIDES  
PLUTONIUM OXIDES  
POLYSULFIDES  
POTASSIUM OXIDES  
POTASSIUM PEROXIDES  
PYRITES  
PYROXYENES  
PYRRHOTITE  
QUARTZ  
RUTILE  
SAPPHIRE  
SCANDIUM OXIDES  
SCHEELITE  
SELENIDES  
SELENIUM OXIDES  
SILICON DIOXIDE  
SILICON OXIDES  
SILVER OXIDES  
SODIUM PEROXIDES  
SPODUMENE  
STRONTIUM SULFIDES  
SULFIDES  
SULFUR OXIDES  
TANTALUM OXIDES  
TELLURIDES  
THORIUM OXIDES  
TIN OXIDES  
TIN TELLURIDES  
TITANIUM OXIDES  
TROILITE  
TUNGSTEN OXIDES  
URANIUM OXIDES  
VANADIUM OXIDES

CHAPLYGIN EQUATION

WURTZITE  
YTTRIUM OXIDES  
ZINC OXIDES  
ZINC SELENIDES  
ZINC SULFIDES  
ZINC TELLURIDES  
ZINCBLLENDE  
ZIRCONIUM OXIDES  
RT GROUP 6A COMPOUNDS  
CHALK  
1805 1806  
BT CALCIUM CARBONATES  
#CALCIUM COMPOUNDS  
#CARBON COMPOUNDS  
CARBONATES  
RT GYPSUM  
CHAMBERS  
1106 1502 2808 3301  
(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)  
RT ANECHOIC CHAMBERS  
ARC CHAMBERS  
BUBBLE CHAMBERS  
CLOUD CHAMBERS  
COMBUSTION CHAMBERS  
CYLINDRICAL CHAMBERS  
FLEXING  
FLOW CHAMBERS  
HYPERBARIC CHAMBERS  
IONIZATION CHAMBERS  
PLENUM CHAMBERS  
PRESSURE CHAMBERS  
SPARK CHAMBERS  
TEST CHAMBERS  
VACUUM CHAMBERS  
CHANCE-VOUGHT AIRCRAFT  
0201 0204 0207  
UP CHANCE-VOUGHT MILITARY AIRCRAFT  
BT AIRCRAFT  
CHANCE-VOUGHT MILITARY AIRCRAFT  
USE CHANCE-VOUGHT AIRCRAFT  
MILITARY AIRCRAFT  
CHANDRASEKHAR EQUATION  
1402 1903  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT ELECTROMAGNETIC ABSORPTION  
CHANNEL CAPACITY  
0702 0703 0802 3405  
RT BANDWIDTH  
CAPACITY  
#FREQUENCIES  
CHANNEL FLOW  
1202 3303  
RT OPEN CHANNEL FLOW  
BT #FLUID FLOW  
RT ANNULAR FLOW  
DUCTED FLOW  
FLOW GEOMETRY  
FLUID INJECTION  
INCOMPRESSIBLE FLUIDS  
PIPE FLOW  
WALL FLOW  
CHANNELS  
0702 0802 1202  
(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)  
RT CHANNELS (DATA TRANSMISSION)  
#COMPUTER STORAGE DEVICES  
DUCTS  
#FREQUENCIES  
#MEDIA  
PARALLEL PLATES  
#STRUCTURAL MEMBERS  
#TELECOMMUNICATION  
THROATS  
CHANNELS (DATA TRANSMISSION)  
0802 0803  
BT DATA TRANSMISSION  
RT CHANNELS  
DATA LINKS  
#DATA PROCESSING  
CHAPARRAL MISSILE  
3106 3302 3401  
BT #MISSILES  
SURFACE TO AIR MISSILES  
RT SPACE WEAPONS  
CHAPLYGIN EQUATION  
1902 1903

# CHAPMAN-ENSKOG THEORY

RT EQUATIONS  
 FLOW EQUATIONS  
 HODOGRAPHS  
 VECTOR SPACES  
 CHAPMAN-ENSKOG THEORY  
 1203 1902 2311 2404  
 UP ENSKOG-CHAPMAN THEORY  
 BT #KINETIC THEORY  
 TRANSPORT THEORY  
 RT BOLTZMANN TRANSPORT EQUATION  
 DISTRIBUTION FUNCTIONS  
 FLOW DISTRIBUTION  
 MONATOMIC GASES  
 RAREFIED GAS DYNAMICS  
 TEMPERATURE GRADIENTS  
 THERMAL DIFFUSION  
 CHAPMAN-FERRARO PROBLEM  
 1302 1406 1410 2903  
 RT PROBLEMS  
 CHAPMAN-JOUQUET FLAME  
 USE CHEMICAL EQUILIBRIUM  
 DETONATION  
 FLAME PROPAGATION  
 CHAPMAN SHEAR LAYER  
 USE SHEAR LAYERS  
 CHARACTER RECOGNITION  
 0802 0804  
 BT PATTERN RECOGNITION  
 #RECOGNITION  
 RT ARTIFICIAL INTELLIGENCE  
 CONTRAST  
 DETECTORS  
 GRAPHOLOGY  
 HANDWRITING  
 LEGIBILITY  
 OPTICAL DATA PROCESSING  
 OPTICAL SCANNERS  
 #PERCEPTION  
 READERS  
 READING  
 #RESOLUTION  
 SENSORS  
 SYMBOLS  
 VISIBILITY  
 CHARACTERISTIC EQUATIONS  
 USE EIGENVALUES  
 EIGENVECTORS  
 CHARACTERISTIC FUNCTIONS  
 USE EIGENVALUES  
 EIGENVECTORS  
 CHARACTERISTIC METHOD  
 USE METHOD OF CHARACTERISTICS  
 CHARACTERISTICS  
 1902 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #DYNAMIC CHARACTERISTICS  
 FLIGHT CHARACTERISTICS  
 SEGRE CHARACTERISTIC  
 SPRAY CHARACTERISTICS  
 VOLT-AMPERE CHARACTERISTICS  
 CHARACTERIZATION  
 0410 3406 3407  
 RT EXAMINATION  
 CHARACTERS  
 USE SYMBOLS  
 CHARCOAL  
 0403 0505 0603 1805 1808  
 BT CARBON  
 RT #CHEMICAL ELEMENTS  
 ADSORBENTS  
 COKE  
 #FUELS  
 CHARGE CARRIERS  
 2304 2602  
 NT FREE ELECTRONS  
 HOLES (ELECTRON DEFICIENCIES)  
 MAJORITY CARRIERS  
 MINORITY CARRIERS  
 RT CARRIER INJECTION  
 CARRIERS  
 ELECTRON MOBILITY  
 HOLE MOBILITY  
 CHARGE DISTRIBUTION  
 0902 1002 2304 2402  
 BT #DISTRIBUTION (PROPERTY)  
 #ELECTRICAL PROPERTIES  
 RT CHARGE TRANSFER  
 CURRENT DISTRIBUTION  
 ELECTRON DISTRIBUTION  
 ELECTROSTATIC CHARGE

FORCE DISTRIBUTION  
 HOLE DISTRIBUTION (ELECTRONICS)  
 ION DISTRIBUTION  
 MASS DISTRIBUTION  
 POLARIZATION (CHARGE SEPARATION)  
 CHARGE EXCHANGE  
 1203 2403 2405 2502  
 (COLLISIONAL TRANSFER OF AN ELECTRON  
 FROM A NEUTRAL ATOM OR MOLECULE TO AN  
 ION--EXCLUDES SEMICONDUCTOR AND  
 PHOTOCHEMICAL CHARGE TRANSFER)  
 NT RESONANCE CHARGE EXCHANGE  
 BT #EXCHANGING  
 RT ELECTRON TRANSFER  
 ION ATOM INTERACTIONS  
 ION CHARGE  
 ION PRODUCTION RATES  
 PLASMA-PARTICLE INTERACTIONS  
 RECOIL IONS  
 CHARGE SEPARATION  
 USE POLARIZATION (CHARGE SEPARATION)  
 CHARGE TRANSFER  
 0604 0902 1001 2304  
 (EXCLUDES COLLISIONAL CHARGE EXCHANGE)  
 RT CARRIER INJECTION  
 CHARGE DISTRIBUTION  
 CHARGED PARTICLES  
 ELECTRON TRANSFER  
 ION EXCHANGING  
 IONIC REACTIONS  
 MASS TRANSFER  
 PHOTOCHEMICAL REACTIONS  
 POLARIZATION (CHARGE SEPARATION)  
 TRANSFERRING  
 CHARGED PARTICLES  
 0604 1703 1804 2304 2401 2403 2405  
 NT ALPHA PARTICLES  
 ANIONS  
 ANTIPROTONS  
 ARTIFICIAL RADIATION BELTS  
 CATIONS  
 CONDUCTION ELECTRONS  
 DEUTERONS  
 ELECTRONS  
 FERMI ION  
 FREE ELECTRONS  
 HIGH ENERGY ELECTRONS  
 HIGH TEMPERATURE PLASMAS  
 HOT ELECTRONS  
 INNER RADIATION BELT  
 MAGNETICALLY TRAPPED PARTICLES  
 MANGANESE IONS  
 METAL IONS  
 N ELECTRONS  
 NEGATONS  
 OUTER RADIATION BELT  
 PHOTOELECTRONS  
 PI-ELECTRONS  
 POLARONS  
 POSITRONS  
 PROTON BELTS  
 PROTONS  
 RADIATION BELTS  
 RECOIL PROTONS  
 SOLAR PROTONS  
 STELLAR WINDS  
 TRITONS  
 VANADYL RADICAL  
 BT #PARTICLES  
 RT ANTINEUTRINOS  
 ANTIPARTICLES  
 BOSONS  
 CHARGE TRANSFER  
 CORPUSCULAR RADIATION  
 COULOMB COLLISIONS  
 COULOMB POTENTIAL  
 CYCLOTRON FREQUENCY  
 CYCLOTRON RADIATION  
 CYCLOTRON RESONANCE  
 DEUTERON IRRADIATION  
 ELEMENTARY PARTICLES  
 ETA-MESONS  
 GYROFREQUENCY  
 HYPERONS  
 ION CHARGE  
 K-MESONS  
 KAONS  
 LEPTONS  
 LORENTZ FORCE  
 MESON-NUCLEON INTERACTIONS  
 MESONS  
 MUONS

# NASA THESAURUS (ALPHABETICAL LISTING)

N ELECTRONS  
 NEUTRONS  
 NONADIABATIC THEORY  
 NUCLEI  
 NUCLEON-NUCLEON INTERACTIONS  
 NUCLEONS  
 PARTICLE CHARGING  
 PARTICLE TRAJECTORIES  
 PIONS  
 TRAPPED PARTICLES  
 CHARGING  
 2304 2307 2401 2402 3302  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BATTERY CHARGERS  
 #ELECTRIC CHARGE  
 ELECTROSTATIC CHARGE  
 #EXPLOSIVE DEVICES  
 EXPLOSIVES  
 FILLING  
 #INJECTION  
 MAGNETIC CHARGE DENSITY  
 CHARGE IMPACT TEST  
 3201 3203  
 BT IMPACT TESTS  
 NOTCH TESTS  
 RT BRITTLENESS  
 DROP TESTS  
 HARDNESS  
 MATERIALS TESTS  
 NOTCH SENSITIVITY  
 CHARRING  
 0403 1805 1808 1810 3305  
 RT ABLATION  
 CARBONIZATION  
 #COMBUSTION  
 DECOMPOSITION  
 OXIDATION  
 THERMAL ABSORPTION  
 #CHARTS  
 1001 1308 1902 2103 3406  
 NT FLOW CHARTS  
 GOMPERTZ CURVES  
 GRAPHS (CHARTS)  
 METEOROLOGICAL CHARTS  
 MOLLIER DIAGRAM  
 PATTERSON MAP  
 RT DIAGRAMS  
 #DISPLAY DEVICES  
 DRAWINGS  
 GRAPHIC ARTS  
 #MAPS  
 #NAVIGATION AIDS  
 NOMOGRAPHS  
 PLOTS  
 #STATISTICAL ANALYSIS  
 STATISTICAL TESTS  
 VISUAL AIDS  
 CHASSIS  
 0902 0905  
 BT FRAMES  
 RT AUTOMOBILES  
 CARRIAGES  
 HEADERS  
 STRUTS  
 SUPPORTS  
 UNDERCARRIAGES  
 CHEBYSHEV APPROXIMATION  
 1902 1905  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT SERIES (MATHEMATICS)  
 #STATISTICAL ANALYSIS  
 CHECKOUT  
 0802 1102 1108 3409  
 (SEQUENCE OF TESTS TO DETERMINE  
 FUNCTIONAL READINESS OF EQUIPMENT)  
 UP DEBUGGING  
 RT AIRCRAFT MAINTENANCE  
 CEFOAM CHECKOUT EQUIPMENT  
 CERTIFICATION  
 COLD FLOW TESTS  
 COUNTDOWN  
 INSPECTION  
 MAINTENANCE  
 PERFORMANCE TESTS  
 PREFIRING TESTS  
 SPACE VEHICLE CHECKOUT PROGRAM  
 TEST EQUIPMENT  
 TESTS



# NASA THESAURUS (ALPHABETICAL LISTING)

CHECKOUT EQUIPMENT  
USE TEST EQUIPMENT  
CHELATE COMPOUNDS  
USE CHELATES  
CHELATES  
0403 1704 1808  
UF CHELATE COMPOUNDS  
RT CHELATION  
#ORGANOMETALLIC COMPOUNDS  
CHELATION  
0403 0602 1704  
RT CHELATES  
#CHEMICAL REACTIONS  
CHEMICAL ANALYSIS  
0403 0601 0603 1411  
NT ELECTROPHOTOMETRY  
GAS ANALYSIS  
GAS SPECTROSCOPY  
IODINOMETRY  
KARL FISCHER REAGENT  
KJELDAHL METHOD  
MICROANALYSIS  
NEUTRON ACTIVATION ANALYSIS  
OZONOMETRY  
PAPER CHROMATOGRAPHY  
POTENTIOMETRIC ANALYSIS  
QUALITATIVE ANALYSIS  
QUANTITATIVE ANALYSIS  
SPECTROSCOPIC ANALYSIS  
URINALYSIS  
VAN SLYKE METHOD  
VOLUMETRIC ANALYSIS  
BT #CHEMICAL TESTS  
RT ANALYTICAL CHEMISTRY  
ANALYZING  
ASSAYING  
CHEMICAL COMPOSITION  
CHEMISTRY  
CHROMATOGRAPHY  
COLORIMETRY  
COULOMETERS  
DENSITY MEASUREMENT  
DIFFRACTOMETERS  
ELECTRON PROBES  
FUEL TESTS  
GAS CHROMATOGRAPHY  
HYDROMETERS  
HYGROMETERS  
IDENTIFYING  
INFRARED SPECTROPHOTOMETERS  
INFRARED SPECTROSCOPY  
ION SELECTIVE ELECTRODES  
ISOTOPIC LABELING  
MASS SPECTROMETERS  
MASS SPECTROSCOPY  
MATERIALS TESTS  
MEASUREMENT  
METHYLENE BLUE  
MOISTURE METERS  
NEPHANALYSIS  
#OPTICAL MEASUREMENT  
PARTICULATE SAMPLING  
PHOTOMETRY  
PHYSICAL CHEMISTRY  
POLARIMETERS  
POLAROGRAPHY  
PSYCHROMETERS  
RADIOCHEMISTRY  
SAMPLING  
SPECTRAL SIGNATURES  
SPECTROMETERS  
SPECTROPHOTOMETERS  
#SPECTROSCOPY  
TESTS  
THERMOGRAVIMETRY  
TITRIMETERS  
X RAY ANALYSIS  
CHEMICAL ATTACK  
0603 1702  
NT INTERGRANULAR CORROSION  
RT ATTACK  
CORROSION  
CORROSION PREVENTION  
CORROSION RESISTANCE  
CORROSION TESTS  
DEGRADATION  
DISSOLVING  
IMPREGNATING  
OXIDATION  
PASSIVITY  
PITTING  
RUSTING

SCALE (CORROSION)  
CHEMICAL AUXILIARY POWER UNITS  
0302 0303 0602  
BT #AUXILIARY POWER SOURCES  
RT ELECTRIC BATTERIES  
FUEL CELLS  
MAGNESIUM CELLS  
CHEMICAL BONDS  
0403 0603  
UF MOLECULAR BONDS  
RT COVALENT BONDS  
HYDROGEN BONDS  
RT #BONDING  
COUPLED MODES  
COVALENCE  
COVALENT BONDS  
#CRYSTAL LATTICES  
IONIC CRYSTALS  
LIGANDS  
#MOLECULES  
MONATOMIC MOLECULES  
OCTETS  
POLYATOMIC MOLECULES  
POLYMER  
SWAN BANDS  
VALENCE  
CHEMICAL CLEANING  
0602 1502 1504  
UF PICKLING  
RT CLEANING  
DESCALING  
DISSOLVING  
CHEMICAL COMPOSITION  
0403 0601 0603  
NT CARBON DIOXIDE CONCENTRATION  
BT #COMPOSITION (PROPERTY)  
RT #ATMOSPHERIC COMPOSITION  
ATOM CONCENTRATION  
BODY COMPOSITION (BIOLOGY)  
CHEMICAL ANALYSIS  
#DISTRIBUTION (PROPERTY)  
GAS COMPOSITION  
IONOSPHERIC COMPOSITION  
LIGANDS  
SPECTRAL SIGNATURES  
CHEMICAL COMPOUNDS  
0403 0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ADDUCTS  
#ALIPHATIC COMPOUNDS  
AMMINES  
DIBASIC COMPOUNDS  
#GALLIUM COMPOUNDS  
#GERMANIUM COMPOUNDS  
#HALOGEN COMPOUNDS  
#INORGANIC COMPOUNDS  
#IRON COMPOUNDS  
LEAD COMPOUNDS  
#MOLECULES  
MONATOMIC MOLECULES  
NEPTUNIUM COMPOUNDS  
NICKEL COMPOUNDS  
#NITROGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
ORGANIC SEMICONDUCTORS  
ORGANIC SULFUR COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS  
PALLADIUM COMPOUNDS  
PHOSGENE  
PLATINUM COMPOUNDS  
POLYATOMIC MOLECULES  
POLYQUINOXALINES  
#RARE EARTH COMPOUNDS  
RUTHENIUM COMPOUNDS  
WISWESSER NOTATIONS  
YTTERBIUM COMPOUNDS  
CHEMICAL EFFECTS  
0403 0603  
RT BIOLOGICAL EFFECTS  
EFFECTS  
TEMPERATURE EFFECTS  
#CHEMICAL ELEMENTS  
0601  
NT ACTINIDE SERIES  
ACTINIUM  
ALKALI METALS  
ALKALINE EARTH METALS  
ALUMINUM  
ALUMINUM ISOTOPES  
ALUMINUM 26

# #CHEMICAL ELEMENTS

ALUMINUM 27  
AMERICIUM  
AMERICIUM ISOTOPES  
AMERICIUM 241  
ANTIMONY  
ARGON  
ARGON ISOTOPES  
ARSENIC  
ARSENIC ISOTOPES  
ASTATINE  
ASTATINE ISOTOPES  
BARIUM  
BARIUM ISOTOPES  
BERKELIUM  
BERYLLIUM  
BERYLLIUM ISOTOPES  
BERYLLIUM 7  
BERYLLIUM 9  
BERYLLIUM 10  
BISMUTH  
BISMUTH ISOTOPES  
BORON  
BORON ISOTOPES  
BORON 10  
BROMINE  
BROMINE ISOTOPES  
CADMIUM  
CADMIUM ISOTOPES  
CALCIUM  
CALCIUM ISOTOPES  
CALIFORNIIUM  
CALIFORNIUM ISOTOPES  
CARBON  
CARBON ISOTOPES  
CARBON 12  
CARBON 13  
CARBON 14  
CERIUM  
CERIUM ISOTOPES  
CERIUM 137  
CERIUM 144  
CESIUM  
CESIUM ISOTOPES  
CESIUM VAPOR  
CESIUM 133  
CESIUM 134  
CESIUM 137  
CESIUM 144  
CHARCOAL  
CHLORINE  
CHROMIUM ISOTOPES  
COBALT  
COBALT ISOTOPES  
COBALT 58  
COBALT 60  
COPPER  
COPPER ISOTOPES  
CURIUM  
CURIUM ISOTOPES  
CURIUM 242  
CURIUM 244  
DEUTERIUM  
DEUTERIUM PLASMA  
DYSPROSIUM  
DYSPROSIUM ISOTOPES  
EINSTEINIUM  
ELEMENT 104  
ELEMENT 105  
ERBIUM  
ERBIUM ISOTOPES  
EUROPIUM  
FERMIUM  
FLUORINE  
FRANCIUM  
GADOLINIUM  
GALLIUM  
GALLIUM ISOTOPES  
GERMANIUM  
GERMANIUM ISOTOPES  
GOLD  
GOLD ISOTOPES  
GOLD 198  
HAFNIUM  
HAFNIUM ISOTOPES  
HALOGENS  
HELIUM  
HELIUM ATOMS  
HELIUM FILM  
HELIUM ISOTOPES  
HOLMIUM  
HOLMIUM ISOTOPES  
HYDROGEN

# CHEMICAL ENERGY

HYDROGEN ATOMS  
HYDROGEN IONS  
HYDROGEN ISOTOPES  
HYDROGEN PLASMA  
HYDROGEN 4  
INDIUM  
INDIUM ISOTOPES  
IODINE  
IODINE ISOTOPES  
IODINE 125  
IODINE 131  
IODINE 132  
IRIDIUM ISOTOPES  
IRON  
IRON ISOTOPES  
IRON 57  
IRON 59  
ISOTOPES  
KRYPTON ISOTOPES  
KRYPTON 85  
LANTHANUM  
LANTHANUM ISOTOPES  
LAWRENCIUM  
LEAD (METAL)  
LEAD ISOTOPES  
LIGHT ELEMENTS  
LIQUID HELIUM  
LIQUID HYDROGEN  
LIQUID NEON  
LIQUID NITROGEN  
LIQUID POTASSIUM  
LIQUID SODIUM  
LITHIUM  
LITHIUM ISOTOPES  
LUTETIUM  
LUTETIUM ISOTOPES  
MAGNESIUM  
MAGNESIUM ISOTOPES  
MANGANESE  
MANGANESE ISOTOPES  
MENDELEVIUM  
MERCURY (METAL)  
MERCURY ISOTOPES  
MERCURY VAPOR  
METALLOIDS  
NEODYMIUM  
NEODYMIUM ISOTOPES  
NEON  
NEON ISOTOPES  
NEPTUNIUM  
NEPTUNIUM ISOTOPES  
NICKEL  
NICKEL ISOTOPES  
NIOBIUM ISOTOPES  
NIOBIUM 95  
NITROGEN  
NITROGEN ATOMS  
NITROGEN IONS  
NITROGEN ISOTOPES  
NITROGEN 15  
NITROGEN 16  
NOBELIUM  
NUCLIDES  
ORTHO HYDROGEN  
OSMIUM ISOTOPES  
OXYGEN ISOTOPES  
OXYGEN 18  
PALLADIUM  
PARA HYDROGEN  
PHOSPHORUS ISOTOPES  
PHOSPHORUS 32  
PLATINUM  
PLATINUM BLACK  
PLATINUM ISOTOPES  
PLUTONIUM  
PLUTONIUM ISOTOPES  
PLUTONIUM 238  
PLUTONIUM 239  
PLUTONIUM 240  
PLUTONIUM 241  
POLONIUM  
POLONIUM ISOTOPES  
POLONIUM 208  
POLONIUM 209  
POLONIUM 210  
POTASSIUM  
POTASSIUM ISOTOPES  
POTASSIUM 38  
POTASSIUM 39  
POTASSIUM 40  
POWDERED ALUMINUM  
PRASEODYMIUM

PRASEODYMIUM ISOTOPES  
PRASEODYMIUM  
PRASEODYMIUM ISOTOPES  
PROTACTINIUM  
PROTACTINIUM ISOTOPES  
RADIOACTIVE ISOTOPES  
RADIUM  
RADIUM ISOTOPES  
RADIUM 226  
RADON  
RADON ISOTOPES  
RARE EARTH ELEMENTS  
RARE GASES  
RHODIUM  
RHODIUM ISOTOPES  
RUBIDIUM  
RUBIDIUM ISOTOPES  
RUBIDIUM 86  
RUTHENIUM  
RUTHENIUM ISOTOPES  
SAMARIUM  
SAMARIUM ISOTOPES  
SCANDIUM  
SCANDIUM ISOTOPES  
SELENIUM  
SILICON  
SILICON ISOTOPES  
SILVER  
SILVER ISOTOPES  
SINTERED ALUMINUM POWDER  
SODIUM  
SODIUM ISOTOPES  
SODIUM VAPOR  
SODIUM 22  
SODIUM 24  
SOLID NITROGEN  
STRONTIUM  
STRONTIUM ISOTOPES  
STRONTIUM 85  
STRONTIUM 88  
STRONTIUM 89  
STRONTIUM 90  
SULFUR  
SULFUR ISOTOPES  
TECHNETIUM  
TECHNETIUM ISOTOPES  
TELLURIUM  
TELLURIUM ISOTOPES  
TERBIUM  
TERBIUM ISOTOPES  
THALLIUM  
THALLIUM ISOTOPES  
THORIUM  
THORIUM ISOTOPES  
THULIUM  
THULIUM ISOTOPES  
TIN  
TIN ISOTOPES  
TITANIUM  
TITANIUM ISOTOPES  
TRACE ELEMENTS  
TRANSURANIUM ELEMENTS  
TRITIUM  
TUNGSTEN ISOTOPES  
URANIUM  
URANIUM ISOTOPES  
URANIUM 232  
URANIUM 233  
URANIUM 234  
URANIUM 235  
URANIUM 238  
VANADIUM  
XENON  
XENON ISOTOPES  
XENON 129  
XENON 133  
XENON 135  
YTTERBIUM  
YTTERBIUM ISOTOPES  
YTTRIUM  
YTTRIUM ISOTOPES  
ZINC  
ZINC ISOTOPES  
ZIRCONIUM  
ZIRCONIUM ISOTOPES  
ZIRCONIUM 95  
BT  
ATOMS  
CHEMICALS  
ELEMENTS  
FERROUS METALS  
#HEAVY ELEMENTS  
#IONS

# NASA THESAURUS (ALPHABETICAL LISTING)

#METALS  
NONFERROUS METALS  
NUCLEAR ISOBARS  
TRACE CONTAMINANTS  
VANADIUM ISOTOPES  
CHEMICAL ENERGY  
0302 0603  
NT ENERGY OF FORMATION  
RT ENERGY  
FREE ENERGY  
INTERNAL ENERGY  
KINETIC ENERGY  
LEVEL  
MOLECULAR ENERGY LEVELS  
NUCLEAR ENERGY  
#POTENTIAL ENERGY  
CHEMICAL ENGINEERING  
0602 3404  
RT AEROTHERMOCHEMISTRY  
CHEMISTRY  
#DIFFUSION  
ENGINEERING  
#FLUID FLOW  
FURNACES  
HEAT TRANSFER  
MATERIALS HANDLING  
OPERATIONS  
THERMOCHEMISTRY  
CHEMICAL EQUILIBRIUM  
0403 0602 0603 3304  
UP CHAPMAN-JOUGET FLAME  
CHEMICAL SHIFT  
NT ACID BASE EQUILIBRIUM  
RT BUFFERS (CHEMISTRY)  
CHEMICAL REACTORS  
DISSOCIATION  
EQUILIBRIUM  
HEAT OF DISSOCIATION  
PHASE RULE  
REACTION KINETICS  
THERMODYNAMIC EQUILIBRIUM  
CHEMICAL EXPLOSIONS  
0602 0603 3301 3302  
NT GAS EXPLOSIONS  
BT #EXPLOSIONS  
RT AERIAL EXPLOSIONS  
#COMBUSTION  
DETONABLE GAS MIXTURES  
DETONATION  
EXPLOSIVES  
FLAMMABLE GASES  
UNDERGROUND EXPLOSIONS  
UNDERWATER EXPLOSIONS  
CHEMICAL EXTINGUISHERS  
USE FIRE EXTINGUISHERS  
CHEMICAL FUELS  
0602 2203 2701 2702  
NT AEROZINE  
AIRCRAFT FUELS  
ENDOTHERMIC FUELS  
GASOLINE  
HIGH ENERGY FUELS  
HYDROCARBON FUELS  
HYDROGEN FUELS  
JET ENGINE FUELS  
JP-4 JET FUEL  
JP-5 JET FUEL  
JP-6 JET FUEL  
JP-8 JET FUEL  
METAL FUELS  
RP-1 ROCKET PROPELLANTS  
SLURRY PROPELLANTS  
BT #FUELS  
RT CHEMICAL PROPULSION  
EXPLOSIVES  
GELLED PROPELLANTS  
GELLED ROCKET PROPELLANTS  
HYBRID PROPELLANTS  
JP-5 JET FUEL  
MONOPROPELLANTS  
PLASTIC PROPELLANTS  
PYROTECHNICS  
SOLID PROPELLANTS  
CHEMICAL INDICATORS  
0601  
RT INDICATORS  
NETHYLENE BLUE  
PHLOROGLUCINOL  
CHEMICAL KINETICS  
USE REACTION KINETICS  
CHEMICAL LASERS  
0602 1601

# NASA THESAURUS (ALPHABETICAL LISTING)

BT LASERS  
 #STIMULATED EMISSION DEVICES  
 RT ARGON LASERS  
 CARBON DIOXIDE LASERS  
 CARBON MONOXIDE LASERS  
 GAS LASERS  
 INFRARED LASERS  
 LIQUID LASERS  
 ORGANIC LASERS  
 Q SWITCHED LASERS  
 CHEMICAL MACHINING  
 0602 1504  
 UP CHEMICAL MILLING  
 NT ELECTROCHEMICAL MACHINING  
 BT #MACHINING  
 RT MILLING (MACHINING)  
 CHEMICAL MILLING  
 USE CHEMICAL MACHINING  
 #CHEMICAL PROPERTIES  
 0403 0603 3408  
 NT ACIDITY  
 HEAT OF COMBUSTION  
 HEAT OF FORMATION  
 HEAT OF SOLUTION  
 HEAT OF VAPORIZATION  
 SALINITY  
 THERMOCHEMICAL PROPERTIES  
 RT ADSORPTIVITY  
 #CHEMICAL TESTS  
 HIGH RESISTANCE  
 HYGROSCOPICITY  
 LOW RESISTANCE  
 MOISTURE CONTENT  
 PASSIVITY  
 PHYSICAL PROPERTIES  
 PROPELLANT PROPERTIES  
 PROPERTIES  
 RESISTANCE  
 #THERMODYNAMIC PROPERTIES  
 TOXICITY  
 TOXICITY AND SAFETY HAZARD  
 CHEMICAL PROPULSION  
 0602 0603 2702 2804 2809 3301 3304  
 UP CHEMONUCLEAR PROPULSION  
 NT HYBRID PROPULSION  
 BT #PROPULSION  
 RT CHEMICAL FUELS  
 JET PROPULSION  
 MARINE PROPULSION  
 SPACECRAFT PROPULSION  
 UNDERWATER PROPULSION  
 CHEMICAL REACTION CONTROL  
 0602 0603 3304  
 RT AGITATION  
 #CHEMICAL REACTIONS  
 CONTROL  
 REACTION CONTROL  
 TEMPERATURE CONTROL  
 #CHEMICAL REACTIONS  
 0403 0602 0603  
 UP FLAME INTERACTION  
 NT ACETYLATION  
 ACYLATION  
 ALKYLATION  
 AMMONOLYSIS  
 ATOMIC RECOMBINATION  
 BROMINATION  
 CARBONIZATION  
 CARBOXYLATION  
 CHLORINATION  
 COPOLYMERIZATION  
 DECARBONATION  
 DECARBOXYLATION  
 DEFLUORINATION  
 DEHYDROGENATION  
 DEIONIZATION  
 DENITROGENATION  
 DEOXIDIZING  
 DEPOLYMERIZATION  
 DESULFURIZING  
 DIELS-ALDER REACTIONS  
 ELECTROCHEMICAL OXIDATION  
 ENDOTHERMIC REACTIONS  
 EPOXIDATION  
 EXOTHERMIC REACTIONS  
 FERMENTATION  
 FLUORINATION  
 FRIEDEL-CRAFT REACTION  
 GLYCOLYSIS  
 GRIGNARD REACTIONS  
 HALOGENATION  
 HYDROBORATION

HYDROGENATION  
 HYDROGENOLYSIS  
 HYDROLYSIS  
 ION RECOMBINATION  
 METAL-WATER REACTIONS  
 METHYLATION  
 MICHAEL REACTION  
 NITRATION  
 NITRIDING  
 NITROLYSIS  
 OXIDATION  
 OXYGEN RECOMBINATION  
 OXYGENATION  
 PHOSPHORYLATION  
 PHOTOCHEMICAL REACTIONS  
 PHOTOCHROMISM  
 PHOTODECOMPOSITION  
 PHOTOLYSIS  
 PHOTOOXIDATION  
 PHOTOSYNTHESIS  
 PYROHYDROLYSIS  
 PYROLYSIS  
 RADIOLYSIS  
 REDUCTION (CHEMISTRY)  
 RUSTING  
 SABATIER REACTION  
 SULFATION  
 THERMAL DISSOCIATION  
 TITRATION  
 RT BIOSYNTHESIS  
 CHELATION  
 CHEMICAL REACTION CONTROL  
 CHEMICAL REACTORS  
 CORROSION  
 GAS-METAL INTERACTIONS  
 HYDRATION  
 OPERATIONS  
 #PARTICLE INTERACTIONS  
 PLASMA JET SYNTHESIS  
 POLYMERIZATION  
 RADIOCHEMICAL SEPARATION  
 REACTION  
 REACTION KINETICS  
 REACTIVITY  
 SODALITE  
 STOICHIOMETRY  
 SURFACE REACTIONS  
 SYNTHESIS  
 THERMOCHEMISTRY  
 CHEMICAL REACTORS  
 0602 1504 3304  
 UP SYNTHESIZERS  
 RT AUTOCATALYSTS  
 BEDS (PROCESS ENGINEERING)  
 BURNERS  
 CHEMICAL EQUILIBRIUM  
 #CHEMICAL REACTIONS  
 COLUMNS (PROCESS ENGINEERING)  
 CONTACTORS  
 CONTRACTORS  
 FLUIDIZED BED PROCESSORS  
 FURNACES  
 GAS GENERATORS  
 GAS REACTORS  
 REACTOR DESIGN  
 REACTOR MATERIALS  
 REACTOR SAFETY  
 REACTORS  
 #TANKS (CONTAINERS)  
 WATER COOLED REACTORS  
 CHEMICAL RELAXATION  
 USE MOLECULAR RELAXATION  
 CHEMICAL SHIFT  
 USE CHEMICAL EQUILIBRIUM  
 CHEMICAL STERILIZATION  
 0504 0602  
 BT STERILIZATION  
 RT ANTISEPTICS  
 BACTERICIDES  
 PURIFICATION  
 SPACECRAFT STERILIZATION  
 #CHEMICAL TESTS  
 0601 0602 1504  
 NT CHEMICAL ANALYSIS  
 ELECTROPHOTOMETRY  
 GAS ANALYSIS  
 GAS SPECTROSCOPY  
 IODIMETRY  
 KARL FISCHER REAGENT  
 KJELDAHL METHOD  
 MICROANALYSIS  
 NEUTRON ACTIVATION ANALYSIS

## CHEMOSPHERE

OZONOMETRY  
 PAPER CHROMATOGRAPHY  
 POTENTIOMETRIC ANALYSIS  
 QUALITATIVE ANALYSIS  
 QUANTITATIVE ANALYSIS  
 SALT SPRAY TESTS  
 SPECTROSCOPIC ANALYSIS  
 URINALYSIS  
 VAN SLYKE METHOD  
 VOLUMETRIC ANALYSIS  
 RT #CHEMICAL PROPERTIES  
 CORROSION RESISTANCE  
 HIGH TEMPERATURE TESTS  
 INSPECTION  
 LOW TEMPERATURE TESTS  
 #NONDESTRUCTIVE TESTS  
 QUALITY CONTROL  
 SAMPLING  
 STAINING  
 TESTS  
 CHEMICAL WARFARE  
 0403 0602 3401  
 BT WARFARE  
 RT BIOCHEMISTRY  
 PHYSIOLOGICAL FACTORS  
 CHEMICALS  
 0403 0603 1703 1804 1807 1808  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #CHEMICAL ELEMENTS  
 CHEMILUMINESCENCE  
 0605 2306 2402 3408  
 BT #DECAY  
 EMISSION  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT AIRGLOW  
 PHOSPHORESCENCE  
 CHEMISORPTION  
 0602 0603  
 BT ADSORPTION  
 #SORPTION  
 RT ADSORPTIVITY  
 GAS-METAL INTERACTIONS  
 MASKING  
 CHEMISTRY  
 0603  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AEROTHERMOCHEMISTRY  
 AEROTHERMODYNAMICS  
 ANALYTICAL CHEMISTRY  
 ATMOSPHERIC CHEMISTRY  
 BIOCHEMISTRY  
 BIOGEOCHEMISTRY  
 CHEMICAL ANALYSIS  
 CHEMICAL ENGINEERING  
 #ELECTROCHEMISTRY  
 GEOCHEMISTRY  
 INORGANIC CHEMISTRY  
 NUCLEAR CHEMISTRY  
 ORGANIC CHEMISTRY  
 PHYSICAL CHEMISTRY  
 PHYSIOCHEMISTRY  
 PLASMA CHEMISTRY  
 POLYMER CHEMISTRY  
 PROPELLANT CHEMISTRY  
 RADIOCHEMISTRY  
 STOICHIOMETRY  
 THERMOCHEMISTRY  
 WISWESSER NOTATIONS  
 CHEMONUCLEAR PROPULSION  
 USE CHEMICAL PROPULSION  
 NUCLEAR PROPULSION  
 CHEMORECEPTORS  
 0408 1409  
 BT #ANATOMY  
 SENSE ORGANS  
 RT OLFACTORY PERCEPTION  
 TASTE  
 CHEMOSPHERE  
 1302 1308  
 BT #EARTH ATMOSPHERE  
 RT HETEROSPHERE  
 HOMOSPHERE  
 IONOSPHERE  
 LOWER ATMOSPHERE  
 MESOSPHERE  
 OZONOSPHERE  
 STRATOSPHERE

# CHEMOTHERAPY

THERMOSPHERE  
 TROPOSPHERE  
 UPPER ATMOSPHERE  
 CHEMOTHERAPY  
 0403 0405 0408  
 UF DRUG THERAPY  
 BT THERAPY  
 RT ANTISEPTICS  
 #DRUGS  
 CHEST  
 0404  
 BT #ANATOMY  
 RT THORAX  
 TORSO  
 CHEWING  
 USE MASTICATION  
 CHIASEMS  
 0404  
 BT CROSSINGS  
 CHICKENS  
 0402  
 BT #ANIMALS  
 BIRDS  
 VERTEBRATES  
 CHILD DEVICE  
 0408 3405  
 RT #LEARNING  
 CHILD-LANGMUIR LAW  
 1002 2304  
 BT #LAWS  
 RT PERVEANCE  
 SPACE CHARGE  
 THERMIONIC DIODES  
 CHILDREN  
 0404 0408 0410  
 RT FEMALES  
 HUMAN BEINGS  
 PARENTS  
 PROGENY  
 CHILE  
 1305  
 RT NATIONS  
 SOUTH AMERICA  
 CHILLING  
 USE #COOLING  
 CHIMES  
 USE AUDITORY SIGNALS  
 CHIMNEYS  
 1106 1504  
 RT BUILDINGS  
 EXHAUST SYSTEMS  
 FLUES  
 FURNACES  
 PLUMES  
 STACKS  
 VENTS  
 CHIMPANZEES  
 0402  
 NT CERCOCEBUS MONKEYS  
 HUMAN BEINGS  
 MANGABEYS  
 MONKEYS  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 CHIN  
 0404  
 BT #ANATOMY  
 FACE (ANATOMY)  
 MUSCULOSKELETAL SYSTEM  
 RT BONES  
 CHINA  
 1305  
 NT CHINESE PEOPLES REPUBLIC  
 RT ASIA  
 NATIONS  
 CHINESE PEOPLES REPUBLIC  
 1305  
 BT CHINA  
 RT ASIA  
 NATIONS  
 CHINOOK HELICOPTER  
 USE CH-47 HELICOPTER  
 CHIPPING  
 1503 1504  
 RT ABRASION  
 COMMINUTION  
 CUTTING  
 FLAKING  
 FRACTURING  
 FRAGMENTATION  
 PITTING

SEPARATION  
 SPALLING  
 SPLITTING  
 WEAR  
 CHIPS  
 1503 1504 3404  
 RT FRAGMENTS  
 SCRAP  
 CHIRAL DYNAMICS  
 1902  
 RT GROUP THEORY  
 LAGRANGE MULTIPLIERS  
 MATRICES (MATHEMATICS)  
 CHIRONOMUS FLIES  
 0402  
 BT #ANIMALS  
 ARTHROPODS  
 INSECTS  
 INVERTEBRATES  
 RT DROSOPHILA  
 CHIRP  
 0702 0705  
 NT CHIRP SIGNALS  
 BT RADIO FREQUENCY INTERFERENCE  
 CHIRP SIGNALS  
 0702 0705  
 BT CHIRP  
 RADIO FREQUENCY INTERFERENCE  
 RT ELECTROMAGNETIC NOISE  
 SIGNALS  
 CHITIN  
 0402 0403 1805  
 (A POLYSACCHARIDE WHICH IS THE  
 PRINCIPAL CONSTITUENT OF THE SHELLS OF  
 CRABS AND LOBSTERS, THE SHARDS OF  
 BEETLES, AND IS ALSO FOUND IN CERTAIN  
 FUNGI)  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 POLYSACCHARIDES  
 RT GUMS (SUBSTANCES)  
 STARCHES  
 CHLORAL  
 0403 1808  
 BT ALDEHYDES  
 #ALIPHATIC COMPOUNDS  
 CHLORATES  
 0603 1804  
 BT CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 RT OXYGEN COMPOUNDS  
 PERCHLORATES  
 CHLORELLA  
 0407 0409  
 BT ALGAE  
 #PLANTS (BOTANY)  
 CHLORIDES  
 1804 1808  
 UP PENTACHLORIDES  
 TRICHLORIDES  
 NT ALUMINUM CHLORIDES  
 AMMONIUM CHLORIDES  
 BERYLLIUM CHLORIDES  
 BORON CHLORIDES  
 CADMIUM CHLORIDES  
 CALCIUM CHLORIDES  
 CARBON TETRACHLORIDE  
 COPPER CHLORIDES  
 DICHLORIDES  
 GERMANIUM CHLORIDES  
 HYDROCHLORIC ACID  
 HYDROCHLORIDES  
 IRON CHLORIDES  
 LANTHANUM CHLORIDES  
 LEAD CHLORIDES  
 LITHIUM CHLORIDES  
 MAGNESIUM CHLORIDES  
 NITROSYL CHLORIDES  
 NITROXYCHLORIDES  
 NITRIL CHLORIDES  
 PHOSGENE  
 POTASSIUM CHLORIDES  
 SILICON TETRACHLORIDE  
 SILVER CHLORIDES  
 SODIUM CHLORIDES  
 SULFUR CHLORIDES  
 TETRACHLORIDES  
 TITANIUM CHLORIDES  
 TUNGSTEN CHLORIDES  
 BT #HALOGEN COMPOUNDS  
 CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 OXIDES  
 CHLOROAROMATICS  
 0403 1808  
 NT CHLOROBENZENES  
 RT AROMATIC COMPOUNDS  
 CHLOROBENZENES  
 0403 1808  
 BT CHLOROAROMATICS  
 #HYDROCARBONS  
 RT BENZENE  
 CHLOROETHYLENE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #ETHYLENE COMPOUNDS  
 CHLOROPFORM  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

RT METHYL CHLORIDE  
 POLYVINYL CHLORIDE  
 CHLORINATION  
 0403 0505 0602  
 BT #CHEMICAL REACTIONS  
 HALOGENATION  
 RT BLEACHING  
 HYDROMETALLURGY  
 PYROMETALLURGY  
 WATER TREATMENT  
 CHLORINE  
 0603 1807  
 BT #CHEMICAL ELEMENTS  
 CHLORINE COMPOUNDS  
 0603 1804 1808  
 NT ALUMINUM CHLORIDES  
 ALUMINUM PERCHLORATES  
 AMMONIUM CHLORIDES  
 AMMONIUM PERCHLORATES  
 BERYLLIUM CHLORIDES  
 BORON CHLORIDES  
 CADMIUM CHLORIDES  
 CALCIUM CHLORIDES  
 CARBON TETRACHLORIDE  
 CHLORATES  
 CHLORIDES  
 CHLORINE FLUORIDES  
 CHLORINE OXIDES  
 CHLOROSILANES  
 COPPER CHLORIDES  
 DICHLORIDES  
 DICHLORODIPHENYLTRICHLOROETHANE  
 GERMANIUM CHLORIDES  
 HYDRAZINE PERCHLORATES  
 HYDROCHLORIC ACID  
 HYDROCHLORIDES  
 HYDROGEN PERCHLORATE  
 HYDROXYLAMMONIUM PERCHLORATES  
 IRON CHLORIDES  
 LANTHANUM CHLORIDES  
 LEAD CHLORIDES  
 LITHIUM CHLORIDES  
 LITHIUM PERCHLORATES  
 MAGNESIUM CHLORIDES  
 MAGNESIUM PERCHLORATES  
 MECLIZINE  
 NITRONIUM PERCHLORATE  
 NITROSYL CHLORIDES  
 NITROXYCHLORIDES  
 NITRIL CHLORIDES  
 PERCHLORATES  
 PHOSGENE  
 POTASSIUM CHLORIDES  
 POTASSIUM PERCHLORATES  
 SILICON TETRACHLORIDE  
 SILVER CHLORIDES  
 SODIUM CHLORIDES  
 SULFUR CHLORIDES  
 TETRACHLORIDES  
 TITANIUM CHLORIDES  
 TUNGSTEN CHLORIDES  
 BT #HALOGEN COMPOUNDS  
 CHLORINE FLUORIDES  
 0603 1804  
 BT CHLORINE COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 RT LIQUID ROCKET PROPELLANTS  
 CHLORINE OXIDES  
 0603 1804  
 BT #CHALCOGENIDES  
 CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 OXIDES  
 CHLOROAROMATICS  
 0403 1808  
 NT CHLOROBENZENES  
 RT AROMATIC COMPOUNDS  
 CHLOROBENZENES  
 0403 1808  
 BT CHLOROAROMATICS  
 #HYDROCARBONS  
 RT BENZENE  
 CHLOROETHYLENE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #ETHYLENE COMPOUNDS  
 CHLOROPFORM  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

ANESTHETICS  
 #DRUGS  
 RT ANESTHESIOLOGY  
 CHLOROFORMATE  
 0403 1808  
 BT #ESTERS  
 FORMATES  
 CHLOROPHYLLS  
 0403 0409 1808  
 BT #MAGNESIUM COMPOUNDS  
 #ORGANOMETALLIC COMPOUNDS  
 PIGMENTS  
 PORPHYRINS  
 RT #CELLS (BIOLOGY)  
 CHLOROPLASTS  
 PHOTOSYNTHESIS  
 #PLANTS (BOTANY)  
 PORPHINES  
 PORPHYRINS  
 SKIN (ANATOMY)  
 CHLOROPLASTS  
 0406 0409  
 RT #CELLS (BIOLOGY)  
 CHLOROPHYLLS  
 CYTOPLASM  
 PHOTOSYNTHESIS  
 CHLOROPHENE RESINS  
 1808 1810  
 UP NEOPRENES  
 BT ELASTOMERS  
 #RUBBER  
 SYNTHETIC RUBBERS  
 CHLOROSILANES  
 0603 1804  
 BT CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 SILANES  
 #SILICON COMPOUNDS  
 CHLORPROMAZINE  
 0403 0405 1808  
 BT #ALIPHATIC COMPOUNDS  
 HYDRAZINES  
 CHOCTAW HELICOPTER  
 USE CH-34 HELICOPTER  
 CHOICE  
 USE #SELECTION  
 CHOKES  
 1202 1504  
 (EXCLUDES FUEL SYSTEM AND ELECTRONIC  
 DEVICES)  
 RT CHOKES (RESTRICTIONS)  
 DIFFUSERS  
 #ELECTRIC COILS  
 MIXING  
 NOZZLE INSERTS  
 NOZZLES  
 CHOKES (FUEL SYSTEMS)  
 2801 2806  
 RT CARBURETORS  
 CHOKES (RESTRICTIONS)  
 FUEL SYSTEMS  
 ORIFICES  
 CHOKES (RESTRICTIONS)  
 1201 1202  
 RT CHOKES  
 CHOKES (FUEL SYSTEMS)  
 CLOSURES  
 CONSTRICTIONS  
 #IMPEDANCE  
 NOZZLES  
 ORIFICES  
 THROATS  
 #VALVES  
 CHOLERA  
 0405  
 BT #DISEASES  
 INFECTIOUS DISEASES  
 RT DISORDERS  
 KIDNEY DISEASES  
 PARASITIC DISEASES  
 PATHOGENESIS  
 PATHOLOGICAL EFFECTS  
 #PHYSIOLOGICAL EFFECTS  
 CHOLESTEROL  
 0403 0405 1808  
 BT #STERIODS  
 RT LIQUID CRYSTALS  
 CHOLINE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS

#CARBOHYDRATES  
 FATS  
 #ORGANIC COMPOUNDS  
 CHOLINERGIC BLOCKING AGENTS  
 USE ANTICHOLINERGICS  
 CHOLINERGICS  
 0403 1808  
 NT ANTICHOLINERGICS  
 BT #DRUGS  
 CHOLINESTERASE  
 0403 1808  
 BT ENZYMES  
 RT NEUROMUSCULAR TRANSMISSION  
 CHONDRISES  
 1806 3005  
 NT ALAIS METEORITE  
 BRUDERHEIM METEORITE  
 CARBONACEOUS METEORITES  
 COLD BOKKEVELD METEORITE  
 HVITTS CHONDRITE  
 IVUNA METEORITE  
 MURRAY METEORITE  
 ORGUEIL METEORITE  
 PANTAR CHONDRISES  
 PRIBRAM METEORITE  
 TONK METEORITE  
 YURTUK METEORITE  
 BT #CELESTIAL BODIES  
 METEORITES  
 STONY METEORITES  
 RT ACHONDRISES  
 TEKTITES  
 CHONDRULE  
 1806 3005  
 RT ENSTATITE  
 CHOPPERS (ELECTRIC)  
 USE ELECTRIC CHOPPERS  
 CHORDS (GEOMETRY)  
 0201 1902 2301  
 UP AERODYNAMIC CHORDS  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 LINES (GEOMETRY)  
 RT CURVES (GEOMETRY)  
 TANGENTS  
 CHOROID MEMBRANES  
 0404  
 BT #ANATOMY  
 EYE (ANATOMY)  
 #MEMBRANES  
 SENSE ORGANS  
 RT VISION  
 CHORUS (DAWN PHENOMENON)  
 USE DAWN CHORUS  
 CHORUS PHENOMENON  
 USE DAWN CHORUS  
 CHROMATES  
 0603 1804  
 UP DICHROMATES  
 NT POTASSIUM CHROMATES  
 BT #CHROMIUM COMPOUNDS  
 RT OXYGEN COMPOUNDS  
 CHROMATOGRAPHY  
 0601  
 RT ADSORPTION  
 CHEMICAL ANALYSIS  
 COLORIMETRY  
 QUANTITATIVE ANALYSIS  
 #SORPTION  
 CHROME  
 USE CHROMIUM  
 CHROMIC ACID  
 0603 1804  
 BT #ACIDS  
 #CHROMIUM COMPOUNDS  
 CHROMITES  
 1806  
 BT #CHALCOGENIDES  
 #CHROMIUM COMPOUNDS  
 CHROMIUM OXIDES  
 #IRON COMPOUNDS  
 IRON OXIDES  
 #METAL OXIDES  
 #MINERALS  
 OXIDES  
 RT PERIDOTITE  
 SERPENTINE  
 CHROMIUM  
 0603 1703  
 UP CHROME  
 NT CHROMIUM ISOTOPES  
 BT #METALS

# CHROMOSPHERE

TRANSITION METALS  
 CHROMIUM ALLOYS  
 1701 1704  
 NT CHROMIUM STEELS  
 RENE 41  
 RENE 63  
 RENE 77  
 BT #ALLOYS  
 RT HEAT RESISTANT ALLOYS  
 INCONEL (TRADEMARK)  
 STAINLESS STEELS  
 STELLITE (TRADEMARK)  
 WASPALLOY  
 CHROMIUM BORIDES  
 0603 1804  
 BT BORIDES  
 #BORON COMPOUNDS  
 #CHROMIUM COMPOUNDS  
 CHROMIUM BROMIDES  
 0603 1804  
 BT BROMIDES  
 BROMINE COMPOUNDS  
 #CHROMIUM COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 CHROMIUM CARBIDES  
 0603 1804  
 BT CARBIDES  
 #CARBON COMPOUNDS  
 #CHROMIUM COMPOUNDS  
 #CHROMIUM COMPOUNDS  
 0603 1804  
 NT CHROMATES  
 CHROMIC ACID  
 CHROMITES  
 CHROMIUM BORIDES  
 CHROMIUM BROMIDES  
 CHROMIUM CARBIDES  
 CHROMIUM FLUORIDES  
 CHROMIUM OXIDES  
 POTASSIUM CHROMATES  
 RT GROUP 6B COMPOUNDS  
 METAL COMPOUNDS  
 CHROMIUM FLUORIDES  
 0603 1804  
 BT #CHROMIUM COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 CHROMIUM ISOTOPES  
 0603 1703 2406  
 BT #CHEMICAL ELEMENTS  
 CHROMIUM  
 ISOTOPES  
 NUCLIDES  
 CHROMIUM OXIDES  
 0603 1804  
 NT CHROMITES  
 BT #CHALCOGENIDES  
 #CHROMIUM COMPOUNDS  
 METAL OXIDES  
 OXIDES  
 CHROMIUM STEELS  
 1701 1704  
 BT #ALLOYS  
 CHROMIUM ALLOYS  
 IRON ALLOYS  
 STEELS  
 CHROMOSOMES  
 0403 0404 0406  
 BT #CELLS (BIOLOGY)  
 RT CYTOLOGY  
 #GENETICS  
 MITOSIS  
 MUTATIONS  
 NUCLEI  
 REPRODUCTIVE SYSTEMS  
 TETRAD THEORY  
 CHROMOSPHERE  
 2902 3001  
 UP SOLAR CHROMOSPHERE  
 BT #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 STELLAR ATMOSPHERES  
 RT FACULAE  
 PHOTOSPHERE  
 SOLAR ATMOSPHERE  
 SOLAR CORONA  
 SOLAR PROMINENCES

# CHRONAXY

SPICULES  
 STELLAR STRUCTURE  
 STELLAR WINDS  
 CHRONAXY  
 0404 1406  
 BT REACTION TIME  
 RT #TIME  
 RT #RESPONSES  
 SENSORY STIMULATION  
 THRESHOLDS (PERCEPTION)  
 CHRONIC CONDITIONS  
 0404 0408 3402  
 BT CONDITIONS  
 CHRONOGRAPHS  
 USE CHRONOMETERS  
 CHRONOLOGY  
 3405  
 UP AGE DETERMINATION  
 DATING  
 RT #TIME  
 CHRONOMETERS  
 1406 2104  
 UP CHRONOGRAPHS  
 BT CLOCKS  
 #MEASURING INSTRUMENTS  
 TIME MEASURING INSTRUMENTS  
 RT ATOMIC CLOCKS  
 CLOCK PARADOX  
 TIME MEASUREMENT  
 TIMING DEVICES  
 CHRONOPHOTOGRAPHY  
 1407  
 UP TIME LAPSE PHOTOGRAPHY  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT BLACK AND WHITE PHOTOGRAPHY  
 MOTION PICTURES  
 CHRONOTRONS  
 USE PULSE RATE  
 TIME LAG  
 CHUCKCHI SEA  
 1305  
 BT SEAS  
 RT ARCTIC REGIONS  
 CHUGGING  
 USE COMBUSTION STABILITY  
 CHUTES  
 1502  
 UP SLIDES  
 RT CONVEYORS  
 MATERIALS HANDLING  
 CINEFLUOROGRAPHY  
 USE MOTION PICTURES  
 RADIOGRAPHY  
 CINEMATOGRAPHY  
 0702 1407 1412  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT BLACK AND WHITE PHOTOGRAPHY  
 CAMERAS  
 COLOR PHOTOGRAPHY  
 INFRARED PHOTOGRAPHY  
 MOTION PICTURES  
 STEREOPHOTOGRAPHY  
 CINE RADIOGRAPHY  
 USE MOTION PICTURES  
 RADIOGRAPHY  
 CINESPECTROGRAPHS  
 1411  
 RT OPTICAL MEASURING INSTRUMENTS  
 #SPECTROSCOPY  
 CINETHEODOLITES  
 0709 1412  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 THEODOLITES  
 TRANSITS  
 RT PHOTOGRAPHIC TRACKING  
 SATELLITE TRACKING  
 CIRCADIAN RHYTHMS  
 0401 0404 0408  
 UP DIURNAL RHYTHMS  
 BT RHYTHM (BIOLOGY)  
 RT ACTIVITY CYCLES (BIOLOGY)  
 CIRCLES (GEOMETRY)  
 1902  
 NT GREAT CIRCLES  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT CIRCUMFERENCES  
 CURVES (GEOMETRY)

ELLIPSES  
 RADII  
 RINGS  
 SECTORS  
 SEGMENTS  
 SPHERES  
 CIRCUIT BOARDS  
 0902 0905  
 RT ELECTRONIC PACKAGING  
 PRINTED CIRCUITS  
 CIRCUIT BREAKERS  
 0902 0904  
 UP BREAKERS (ELECTRIC)  
 RT CIRCUIT PROTECTION  
 DISCONNECT DEVICES  
 ELECTRIC RELAYS  
 FUSES  
 #SWITCHES  
 SWITCHING CIRCUITS  
 CIRCUIT DIAGRAMS  
 0904  
 BT DIAGRAMS  
 RT ENGINEERING DRAWINGS  
 LAYOUTS  
 CIRCUIT PROTECTION  
 0902 0904 0905  
 BT #PROTECTION  
 RT CAPACITORS  
 CIRCUIT BREAKERS  
 #CIRCUITS  
 CURRENT REGULATORS  
 ELECTRIC FUSES  
 ELECTRIC POWER TRANSMISSION  
 ELECTRIC REACTORS  
 ELECTRICAL FAULTS  
 ELECTRICAL GROUNDING  
 ELECTRICAL INSULATION  
 EXPULSION  
 FUSES  
 OVERVOLTAGE  
 PHASE CONTROL  
 PHASE ERROR  
 SUPPRESSORS  
 SURGES  
 TRANSFORMERS  
 TRANSMISSION CIRCUITS  
 #TRANSMISSION LINES  
 VOLTAGE REGULATORS  
 CIRCUIT RELIABILITY  
 0902 1505  
 BT RELIABILITY  
 RT AIRCRAFT RELIABILITY  
 COMPONENT RELIABILITY  
 DRIFT (INSTRUMENTATION)  
 QUALITY CONTROL  
 SPACECRAFT RELIABILITY  
 #CIRCUITS  
 0702 0902 0904 0905 1001 1902  
 UP ELECTRIC CIRCUITS  
 EXPLODING CONDUCTOR CIRCUITS  
 SHUNTS  
 SUBCIRCUITS  
 NT ADDING CIRCUITS  
 ANALOG CIRCUITS  
 AUTODYNES  
 BILITHIC CIRCUITS  
 BISTABLE CIRCUITS  
 CIRCULATORS (PHASE SHIFT CIRCUITS)  
 CLAMPING CIRCUITS  
 CLIPPER CIRCUITS  
 COINCIDENCE CIRCUITS  
 COMPARATOR CIRCUITS  
 COUNTING CIRCUITS  
 COUPLING CIRCUITS  
 DELAY CIRCUITS  
 DIGITAL INTEGRATORS  
 DIPLEXERS  
 DISCRIMINATORS  
 ECHO SUPPRESSORS  
 ELECTRIC BRIDGES  
 EQUIVALENT CIRCUITS  
 FEEDBACK CIRCUITS  
 FIRE CONTROL CIRCUITS  
 FLIP-FLOPS  
 FLUID SWITCHING ELEMENTS  
 GATES (CIRCUITS)  
 INTEGRATED CIRCUITS  
 ITERATIVE NETWORKS  
 LC CIRCUITS  
 LIMITER CIRCUITS  
 LINEAR CIRCUITS  
 LOGIC CIRCUITS

# NASA THESAURUS (ALPHABETICAL LISTING)

MAGNETIC CIRCUITS  
 MATRICES (CIRCUITS)  
 MEDIUM SCALE INTEGRATION  
 MICROWAVE CIRCUITS  
 MIXING CIRCUITS  
 MONOSTABLE MULTIVIBRATORS  
 MULTIVIBRATORS  
 NEGATIVE RESISTANCE CIRCUITS  
 OHMS LAW  
 PHANTASTRONS  
 PHASE DETECTORS  
 PHASE SHIFT CIRCUITS  
 PNEUMATIC CIRCUITS  
 POWER SUPPLY CIRCUITS  
 PRINTED CIRCUITS  
 RC CIRCUITS  
 RL CIRCUITS  
 RLC CIRCUITS  
 SCALERS  
 SQUELCH CIRCUITS  
 SWEEP CIRCUITS  
 SWITCHING CIRCUITS  
 SYNCHROSCOPES  
 THRESHOLD GATES  
 TRANSISTOR CIRCUITS  
 TRANSMISSION CIRCUITS  
 TRIGGER CIRCUITS  
 VARACTOR DIODE CIRCUITS  
 WHEATSTONE BRIDGES  
 WIRE BRIDGE CIRCUITS  
 RT #AMPLIFIERS  
 BREADBOARD MODELS  
 CAPACITORS  
 CASCADES  
 CIRCUIT PROTECTION  
 DIFFERENTIATORS  
 DUPLEXERS  
 ELECTRIC CONNECTORS  
 #ELECTRIC CURRENT  
 ELECTRIC EQUIPMENT  
 #ELECTRIC FILTERS  
 ELECTRIC MOTORS  
 ELECTRIC POWER TRANSMISSION  
 ELECTRIC WIRE  
 ELECTRICAL GROUNDING  
 ELECTROMECHANICS  
 #ELECTRON TUBES  
 FLAT CONDUCTORS  
 INDUCTORS  
 INTEGRATORS  
 KIRCHHOFF LAW OF NETWORKS  
 LOOPS  
 MICROELECTRONICS  
 MICROMINIATURIZATION  
 MINIATURE ELECTRONIC EQUIPMENT  
 #MINIATURIZATION  
 #MODULES  
 NETWORK ANALYSIS  
 NETWORKS  
 #OSCILLATORS  
 SELECTORS  
 SHORT CIRCUITS  
 SIGNAL GENERATORS  
 SOLID STATE DEVICES  
 SOLIONS  
 STRIP  
 #TRANSMISSION LINES  
 TREES (MATHEMATICS)  
 WIRING  
 CIRCULAR CONES  
 0101 1202 1902 3202 3203  
 BT #CONES  
 RT HALF CONES  
 NOSE CONES  
 CIRCULAR CYLINDERS  
 0101 1202 1902 3202 3203  
 RT CYLINDERS  
 CYLINDRICAL BODIES  
 CYLINDRICAL SHELLS  
 ELLIPTICAL CYLINDERS  
 CIRCULAR ORBITS  
 1904 3006  
 NT STATIONARY ORBITS  
 BT #ORBITS  
 RT EARTH ORBITS  
 ELLIPTICAL ORBITS  
 EQUATORIAL ORBITS  
 LUNAR ORBITS  
 ORBITAL MECHANICS  
 PLANETARY ORBITS  
 POLAR ORBITS  
 QUADRATURES

# NASA THESAURUS (ALPHABETICAL LISTING)

# CLARITY

SATELLITE ORBITS  
 SOLAR ORBITS  
 SPACECRAFT ORBITS  
 TWENTY-FOUR HOUR ORBITS  
 CIRCULAR PLATES  
 1504 3202  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT ANNULAR PLATES  
 DISKS (SHAPES)  
 END PLATES  
 FLAT PLATES  
 CIRCULAR POLARIZATION  
 0705 0710 2304 2306 2402  
 BT POLARIZATION (WAVES)  
 RT ELLIPTICAL POLARIZATION  
 OPTICAL POLARIZATION  
 CIRCULAR SHELLS  
 3202 3203  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT CIRCULAR TUBES  
 CYLINDRICAL SHELLS  
 HEMISPHERICAL SHELLS  
 METAL SHELLS  
 SPHERICAL SHELLS  
 CIRCULAR TUBES  
 1504 3202  
 RT CIRCULAR SHELLS  
 CYLINDRICAL SHELLS  
 PIPES (TUBES)  
 TUBES  
 #CIRCULATION  
 0404 0602 1202 1902 2304 2804  
 UF RECIRCULATION  
 RECYCLING  
 NT ATMOSPHERIC CIRCULATION  
 BLOOD CIRCULATION  
 BRAIN CIRCULATION  
 CARBOXYHEMOGLOBIN  
 CONGESTION  
 CORONARY CIRCULATION  
 INTERCRANIAL CIRCULATION  
 INTRAVASCULAR SYSTEM  
 ISCHEMIA  
 OCULAR CIRCULATION  
 PERIPHERAL CIRCULATION  
 PULMONARY CIRCULATION  
 RT BLOOD  
 BLOWING  
 CURRENTS  
 DELIVERY  
 #DIFFUSION  
 DISPERSING  
 PURGING  
 ROTATION  
 CIRCULATORS (PHASE SHIFT CIRCUITS)  
 0905 1202 1504 3303  
 BT #CIRCUITS  
 PHASE SHIFT CIRCUITS  
 RT CAVITY RESONATORS  
 DELAY CIRCUITS  
 DUPLEXERS  
 FARADAY EFFECT  
 HALL GENERATORS  
 LIMITER CIRCUITS  
 CIRCULATORY SYSTEM  
 0404 0405 0408  
 NT AORTA  
 ARTERIES  
 BLOOD VESSELS  
 CAPILLARIES (ANATOMY)  
 GLOMERULUS  
 VASCULAR SYSTEM  
 VEINS  
 BT #ANATOMY  
 RT ARTERIOSCLEROSIS  
 BLOOD CIRCULATION  
 CARDIOVASCULAR SYSTEM  
 CAROTID SINUS REFLEX  
 HEART  
 CIRCUMFERENCES  
 1902 3406  
 BT ANALYTIC GEOMETRY  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT #BOUNDARIES  
 CIRCLES (GEOMETRY)  
 DIAMETERS  
 RADII  
 CIRCUMLUNAR COMMUNICATION  
 0707 1105  
 BT LUNAR COMMUNICATION  
 #TELECOMMUNICATION  
 BT INTERPLANETARY COMMUNICATION  
 #RADAR  
 RADIO COMMUNICATION  
 SPACECRAFT COMMUNICATION  
 UNIFIED S BAND  
 CIRCUMLUNAR TRAJECTORIES  
 1904 3004 3006  
 BT LUNAR TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 SPACECRAFT TRAJECTORIES  
 #TRAJECTORIES  
 RT EARTH-MOON TRAJECTORIES  
 EARTH ORBITS  
 LUNAR FLIGHT  
 LUNAR ORBITS  
 MOON-EARTH TRAJECTORIES  
 REENTRY TRAJECTORIES  
 RENDEZVOUS TRAJECTORIES  
 TRANSFER ORBITS  
 CIRCUMPOLAR WESTERLIES  
 2001 2003  
 BT #WIND (METEOROLOGY)  
 RT ATMOSPHERIC CIRCULATION  
 JET STREAMS (METEOROLOGY)  
 WINDS ALOFT  
 CIRRUS CLOUDS  
 2001 2003  
 BT #CLOUDS  
 CLOUDS (METEOROLOGY)  
 CISLUNAR SPACE  
 1105 1407 3006 3009  
 BT AEROSPACE ENVIRONMENTS  
 #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 RT DEEP SPACE  
 EARTH-MOON TRAJECTORIES  
 INTERPLANETARY SPACE  
 LUNAR FLIGHT  
 LUNAR ORBITS  
 SPACE  
 CITIES  
 3402 3403  
 RT ANTHROPOLOGY  
 COMMUNES  
 #COMMUNITIES  
 INHABITANTS  
 NATIONS  
 SOCIOLOGY  
 URBAN DEVELOPMENT  
 URBAN PLANNING  
 URBAN RESEARCH  
 CITRATES  
 0603 1808  
 BT CITRIC ACID  
 CITRIC ACID  
 0403 1808  
 BT #ACIDS  
 #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 CARBOXYLIC ACIDS  
 RT CITRATES  
 CIVIL AVIATION  
 0204 1101 2101 3404  
 UF COMMERCIAL AVIATION  
 PRIVATE AVIATION  
 NT A-300 AIRCRAFT  
 YAK 40 AIRCRAFT  
 RT A-300 AIRCRAFT  
 AERONAUTICS  
 AIRLINE OPERATIONS  
 #COMMERCIAL AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 CIVIL DEFENSE  
 3401  
 RT AIR DEFENSE  
 ANTIMISSILE DEFENSE  
 DEFENSE  
 DEFENSE PROGRAM  
 EVACUATING (TRANSPORTATION)  
 NUCLEAR EXPLOSIONS  
 NUCLEAR WARFARE  
 #PROTECTION  
 SENTINEL SYSTEM  
 SHELTERS  
 SURVIVAL  
 WARNING  
 #WARNING SYSTEMS  
 CL-28 AIRCRAFT  
 0207 3401  
 UF CANADAIR CL-28 AIRCRAFT  
 BT ANTISUBMARINE WARFARE AIRCRAFT  
 ATTACK AIRCRAFT  
 CANADAIR AIRCRAFT  
 #GENERAL DYNAMICS AIRCRAFT  
 MONOPLANES  
 OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 CL-41 AIRCRAFT  
 0207 3401  
 UF CANADAIR CL-41 AIRCRAFT  
 CT-114 AIRCRAFT  
 TUTOR AIRCRAFT  
 BT CANADAIR AIRCRAFT  
 #GENERAL DYNAMICS AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 TRAINING AIRCRAFT  
 CL-44 AIRCRAFT  
 0201 0204  
 UF CANADAIR CL-44 AIRCRAFT  
 CC-106 AIRCRAFT  
 YUKON AIRCRAFT  
 BT CANADAIR AIRCRAFT  
 CARGO AIRCRAFT  
 #GENERAL DYNAMICS AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 #TRANSPORT AIRCRAFT  
 TURBOPROP AIRCRAFT  
 CL-84 AIRCRAFT  
 0209  
 UF CANADAIR CL-84 AIRCRAFT  
 BT ANTISUBMARINE WARFARE AIRCRAFT  
 CANADAIR AIRCRAFT  
 #GENERAL DYNAMICS AIRCRAFT  
 #JET AIRCRAFT  
 OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 TILT WING AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPROP AIRCRAFT  
 #V/STOL AIRCRAFT  
 CL-823 AIRCRAFT  
 0201 0204  
 UF LOCKHEED CL-823 AIRCRAFT  
 BT #JET AIRCRAFT  
 LOCKHEED AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 SUPERSONIC TRANSPORTS  
 #TRANSPORT AIRCRAFT  
 CL-595 HELICOPTER  
 USE XH-51 HELICOPTER  
 CLADDING  
 0602 1702 1704 1802 2203  
 BT #METAL WORKING  
 RT COLD WORKING  
 #COMPOSITE MATERIALS  
 EXPLOSIVE WELDING  
 EXTRUDING  
 LAMINATES  
 METAL COATINGS  
 METALLIZING  
 PLATING  
 PROTECTIVE COATINGS  
 CLAIMING  
 3402 3406 3407  
 RT LAW  
 PATENTS  
 PREEMPTING  
 CLAMPING CIRCUITS  
 0902 0904  
 BT #CIRCUITS  
 RT LIMITER CIRCUITS  
 POWER LIMITERS  
 CLANES  
 1001 1504 1507  
 RT BANDS  
 CLIPS  
 #FASTENERS  
 HOLDERS  
 JIGS  
 MECHANICAL DEVICES  
 SEALING  
 STRAPS  
 CLARITY  
 2310 3408  
 RT ATMOSPHERIC OPTICS  
 ELECTROMAGNETIC PROPERTIES  
 HAZE  
 OPACITY  
 OPTICAL PROPERTIES  
 PURITY  
 SHARPNESS

## CLARK Y AIRFOIL

SOLUBILITY  
TRANSPARENCE  
TURBIDITY  
CLARK Y AIRFOIL  
USE #AIRFOIL PROFILES  
CLASSES  
3405 3406  
RT CATEGORIES  
GROUPS  
SECTIONS  
CLASSIC AIRCRAFT  
USE IL-62 AIRCRAFT  
#CLASSICAL MECHANICS  
1902 2308  
NT ASTRODYNAMICS  
CELESTIAL MECHANICS  
KEPLER LAWS  
MINIMUM VARIANCE ORBIT  
DETERMINATION  
ORBITAL MECHANICS  
SPACE MECHANICS  
RT ANGULAR MOMENTUM  
CONTINUUM MECHANICS  
#EQUATIONS OF MOTION  
EULER-LAGRANGE EQUATION  
HAMILTONIAN FUNCTIONS  
LAGRANGE COORDINATES  
MAXWELL BODIES  
MECHANICS (PHYSICS)  
MOMENTUM  
PHASE-SPACE INTEGRAL  
POISSON EQUATION  
QUATERNIONS  
STATISTICAL MECHANICS  
#CLASSIFICATIONS  
3405  
NT DICHOTOMIES  
HIERARCHIES  
INDEXES (DOCUMENTATION)  
SUBJECTS  
RT ASTRONOMICAL CATALOGS  
BREAKDOWN  
CLASSIFYING  
TAXONOMY  
WISWESSER NOTATIONS  
CLASSIFIERS  
1502  
NT SIZING SCREENS  
THICKENERS (EQUIPMENT)  
BT #SEPARATORS  
RT CENTRIFUGES  
CONCENTRATING  
CONCENTRATORS  
FLOTATION  
SEPARATION  
SHAKERS  
SIZE DETERMINATION  
SIZE SEPARATION  
SPIRALS (CONCENTRATORS)  
CLASSIFYING  
1502 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF SORTING  
RT #CLASSIFICATIONS  
CONCENTRATORS  
EVALUATION  
SECURITY  
#SELECTION  
SIZE SEPARATION  
TAXONOMY  
CLATHRATES  
0403 0603 1804 1808  
RT INCLUSIONS  
CLAYS  
1306 1806  
BT #SOILS  
RT BRICKS  
CERAMICS  
COLLOIDS  
GROUT  
MASONRY  
MINING  
MOLDING MATERIALS  
MUD  
#REFRACTORY MATERIALS  
ROCKS  
SEDIMENTARY ROCKS  
SEDIMENTS  
SHALES  
SIZING MATERIALS

VERMICULITE  
CLEAN ROOMS  
0504  
BT ROOMS  
RT ASSEMBLING  
CLEANLINESS  
#CONTROLLED ATMOSPHERES  
ENVIRONMENTAL CONTROL  
CLEANERS  
0504 0602 3404  
RT AIR FILTERS  
RT ABSORBERS  
ABSORBERS (EQUIPMENT)  
ABSORBERS (MATERIALS)  
CLEANING  
CLEANLINESS  
#SEPARATORS  
WASHERS (CLEANERS)  
CLEANING  
0602 1704 3404  
RT ABRASION  
ANTISEPTICS  
BLEACHING  
CHEMICAL CLEANING  
CLEANERS  
CLEANLINESS  
CORROSION PREVENTION  
DECONTAMINATION  
DESCALING  
DISSOLVING  
#DUST  
FLUSHING  
#METAL FINISHING  
METAL POLISHING  
#POLISHING  
PURIFICATION  
REDUCTION  
REFINING  
SCARPING  
SCAVENGING  
SCRUBBERS  
SEPARATION  
STERILIZATION  
SURFACE FINISHING  
WASHING  
CLEANLINESS  
0408 0412 0504 0505 0506 3408  
RT CLEAN ROOMS  
CLEANERS  
CLEANING  
HYGIENE  
CLEAR AIR TURBULENCE  
0201 1301 2001 2003  
BT ATMOSPHERIC TURBULENCE  
#TURBULENCE  
RT GUSTS  
JET STREAMS (METEOROLOGY)  
THERMAL INSTABILITY  
TURBULENT DIFFUSION  
WIND SHEAR  
CLEARANCES  
1308 1406 1505 1902 3404 3408  
RT ADJUSTING  
ALIGNMENT  
ALLOWANCES  
DATUM (ELEVATION)  
SPACING  
TOLERANCES (MECHANICS)  
CLEARING  
1504 1505 3407  
RT REMOVAL  
CLEAVAGE  
1306 1806 2601 3203  
UF SCISSION  
RT BRITTLE MATERIALS  
BRITTLNESS  
CLEBSCH-GORDAN COEFFICIENTS  
1902 2308  
BT #COEFFICIENTS  
RT ANGULAR MOMENTUM  
COUPLING  
CLIFFS  
1306  
UF BLUFFS (LANDFORMS)  
RT SLOPES  
TOPOGRAPHY  
CLIMATE  
1308 2001 2003  
UF MACROCLIMATE  
RT CLIMATOLOGY  
LONG TERM EFFECTS  
#METEOROLOGY

## NASA THESAURUS (ALPHABETICAL LISTING)

WEATHER  
CLIMATOLOGY  
1308 2001 2003  
NT BIOCLIMATOLOGY  
MICROCLIMATOLOGY  
RT ANTARCTIC REGIONS  
ARCTIC REGIONS  
ATMOSPHERIC CIRCULATION  
CLIMATE  
CLOUD COVER  
CLOUDS (METEOROLOGY)  
DESERTS  
ENVIRONMENTAL ENGINEERING  
GEOGRAPHY  
HUMIDITY  
HYDROLOGY  
#METEOROLOGY  
PERIODIC VARIATIONS  
POLAR METEOROLOGY  
POLAR REGIONS  
PRECIPITATION (METEOROLOGY)  
SEASONS  
SOLAR RADIATION  
#STORMS  
STORMS (METEOROLOGY)  
SUNLIGHT  
TEMPERATE REGIONS  
#TEMPERATURE  
TROPICAL REGIONS  
WEATHER  
#WIND (METEOROLOGY)  
CLIMBING FLIGHT  
0101 0201 0408 0502 1902 2601 3009  
BT ASCENT  
RT ASCENT TRAJECTORIES  
COASTING FLIGHT  
FLIGHT  
FLIGHT PATHS  
HORIZONTAL FLIGHT  
PARABOLIC FLIGHT  
ROCKET FLIGHT  
SOARING  
TAKEOFF  
TURNING FLIGHT  
VERTICAL FLIGHT  
CLINICAL MEDICINE  
0405  
RT ANESTHESIOLOGY  
BED REST  
CASE HISTORIES  
DIAGNOSIS  
EXAMINATION  
HEALING  
HEALTH  
HUMAN BEINGS  
#MEDICAL SCIENCE  
MEDICINE  
OPERATIONS  
SURGERY  
TRANSPLANTATION  
TREATMENT  
CLIPPER CIRCUITS  
0902  
BT #CIRCUITS  
LIMITER CIRCUITS  
RT COMPARATOR CIRCUITS  
POWER LIMITERS  
CLIPS  
0902  
RT ANCHORS (FASTENERS)  
BANDS  
CLAMPS  
COUPLINGS  
#FASTENERS  
HOLDERS  
MECHANICAL DEVICES  
CLOCK PARADOX  
2308 2311  
BT TIME MEASUREMENT  
RT ATOMIC CLOCKS  
CHRONOMETERS  
TIME SIGNALS  
TIMING DEVICES  
CLOCKS  
0303 1406 1504 1601  
UF WATCHES  
NT ATOMIC CLOCKS  
CHRONOMETERS  
BT #MEASURING INSTRUMENTS  
TIME MEASURING INSTRUMENTS  
RT TIME MEASUREMENT  
TIMING DEVICES



# NASA THESAURUS (ALPHABETICAL LISTING)

CLOGGING  
USE PLUGGING  
CLOSE PACKED LATTICES  
1704 2601 3203  
BT #CRYSTAL LATTICES  
RT BODY CENTERED CUBIC LATTICES  
FACE CENTERED CUBIC LATTICES  
CLOSED CIRCUIT TELEVISION  
0702 1402 1410  
BT #COMMUNICATION EQUIPMENT  
RT COLOR TELEVISION  
#COMMUNICATION EQUIPMENT  
EDUCATIONAL TELEVISION  
STEREOTELEVISION  
TELEVISION CAMERAS  
TELEVISION RECEIVERS  
TELEVISION TRANSMISSION  
WIRELESS COMMUNICATIONS  
CLOSED CYCLES  
0602 0702 0802 1003 1202 2311  
(EXCLUDES CLOSED LOOP CONTROL SYSTEMS)  
RT CONTROL THEORY  
COOLING SYSTEMS  
#ELECTRIC GENERATORS  
GAS TURBINES  
LOOPS  
#NUCLEAR REACTORS  
#PLASMA GENERATORS  
THERMAL CYCLING TESTS  
THERMODYNAMIC CYCLES  
CLOSED ECOLOGICAL SYSTEMS  
0404 0504 0505 0507  
BT LIFE SUPPORT SYSTEMS  
RT AEROSPACE MEDICINE  
BIOASTRONAUTICS  
ECOLOGY  
LONG TERM EFFECTS  
OXYGEN PRODUCTION  
SPACECRAFT CABIN ATMOSPHERES  
SPACECRAFT ENVIRONMENTS  
SURVIVAL  
SYSTEMS  
CLOSED LOOP SYSTEMS  
USE FEEDBACK CONTROL  
CLOSING  
3407  
RT BLOCKING  
PLUGGING  
SEALING  
STOPPING  
CLOSTRIDIUM BOTULINUM  
0407 0409  
BT BACTERIA  
#MICROORGANISMS  
#PLANTS (BOTANY)  
RT BACTERIOLOGY  
PATHOGENS  
TOXIC DISEASES  
CLOSURE LAW  
1202 1902  
BT #LAWS  
RT FIELD THEORY (PHYSICS)  
STATISTICAL MECHANICS  
TURBULENT FLOW  
CLOSURES  
1504 1902 3408  
UF BREACHES  
BT BARRIERS  
BLOCKING  
CHOKES (RESTRICTIONS)  
CONSTRUCTIONS  
COUPLINGS  
COVERINGS  
ENCLOSURES  
END PLATES  
#FASTENERS  
FITTINGS  
GATES  
#JOINTS (JUNCTIONS)  
PLUGGING  
PLUGS  
SEALS (STOPPERS)  
TIGHTNESS  
#VALVES  
CLOTH  
USE FABRICS  
#CLOTHING  
0508 1811  
RT BOOTS (FOOTWEAR)  
COTTON FIBERS  
COVERALLS  
FLIGHT CLOTHING

GARMENTS  
GLOVES  
GOGGLES  
HELMETS  
PRESSURE SUITS  
PROTECTIVE CLOTHING  
SHOES  
SOCKS  
SPACE SUITS  
SUITS  
BT BUTTONS (FASTENERS)  
CUFFS  
FABRICS  
LEATHER  
TEXTILES  
VESTS  
CLOTTING  
0403 0404 0408  
RT BLOOD COAGULATION  
EMBOLISMS  
THROMBOCYTES  
THROMBOPLASTIN  
CLOUD CHAMBERS  
1106 2403 2405  
BT IONIZATION CHAMBERS  
RT BUBBLE CHAMBERS  
CHAMBERS  
RADIATION COUNTERS  
SPARK CHAMBERS  
CLOUD COVER  
2001 2003  
UF OVERCAST  
RT BLANKETS  
CLIMATOLOGY  
CLOUDS (METEOROLOGY)  
FLIGHT CONDITIONS  
METEOROLOGICAL PARAMETERS  
#METEOROLOGY  
NEPHANALYSIS  
SHADOWS  
SKY  
SKY BRIGHTNESS  
SOLAR RADIATION  
SUNLIGHT  
WEATHER FORECASTING  
CLOUD GLACIATION  
1301 2003  
BT ICE FORMATION  
RT FREEZING  
HAIL  
ICE NUCLEI  
SNOW  
SNOW COVER  
CLOUD HEIGHT INDICATORS  
1301 1406 2003  
UF CELLOMETERS  
BT INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
RT CELLINGS (METEOROLOGY)  
CLOUD PHOTOGRAPHS  
1401 1407 2004  
BT PHOTOGRAPHS  
RT AERIAL PHOTOGRAPHY  
ALL SKY PHOTOGRAPHY  
CLOUD PHOTOGRAPHY  
SPACEBORNE PHOTOGRAPHY  
TIROS PROJECT  
CLOUD PHOTOGRAPHY  
1401 1407 2003 2004  
BT #IMAGERY  
#PHOTOGRAPHY  
RT AERIAL PHOTOGRAPHY  
ALL SKY PHOTOGRAPHY  
BLACK AND WHITE PHOTOGRAPHY  
CLOUD PHOTOGRAPHS  
DIRECT READOUT EQUATORIAL WEATHER  
SAT  
ESSA SATELLITES  
METEOROLOGICAL SATELLITES  
NIMBUS PROJECT  
NIMBUS 1 SATELLITE  
NIMBUS 2 SATELLITE  
NIMBUS SATELLITES  
SPACEBORNE PHOTOGRAPHY  
TIROS OPERATIONAL SATELLITE SYSTEM  
TIROS PROJECT  
TIROS SATELLITES  
CLOUD PHYSICS  
1308 2003  
BT ATMOSPHERIC PHYSICS  
RT ATMOSPHERIC ELECTRICITY

COAGULATION  
CONDENSING  
DROP SIZE  
NEPHANALYSIS  
PHYSICS  
PRECIPITATION (METEOROLOGY)  
WEATHER MODIFICATION  
CLOUD SEEDING  
2001 2003 3404  
BT NUCLEATION  
WEATHER MODIFICATION  
RT CLOUDS (METEOROLOGY)  
PRECIPITATION (METEOROLOGY)  
RAIN  
STIMULATION  
#CLOUDS  
1301 1308 2003  
UF PARTICLE CLOUDS  
NT ARTIFICIAL CLOUDS  
CIRRUS CLOUDS  
CLOUDS (METEOROLOGY)  
CUMULONIMBUS CLOUDS  
CUMULUS CLOUDS  
ELECTRON CLOUDS  
HYDROGEN CLOUDS  
NIMBOSTRATUS CLOUDS  
NOCTILUCENT CLOUDS  
PLASMA CLOUDS  
STRATOCUMULUS CLOUDS  
STRATUS CLOUDS  
RT DROP SIZE  
#DUST  
#PARTICLES  
CLOUDS (METEOROLOGY)  
2003 1301 1308  
NT ARTIFICIAL CLOUDS  
CIRRUS CLOUDS  
CUMULONIMBUS CLOUDS  
CUMULUS CLOUDS  
NIMBOSTRATUS CLOUDS  
NOCTILUCENT CLOUDS  
STRATOCUMULUS CLOUDS  
STRATUS CLOUDS  
BT #CLOUDS  
RT ATMOSPHERIC MOISTURE  
CLIMATOLOGY  
CLOUD COVER  
CLOUD SEEDING  
DROP SIZE  
FOG  
HYDROGEN CLOUDS  
#METEOROLOGY  
NEPHANALYSIS  
PLASMA CLOUDS  
PRECIPITATION (METEOROLOGY)  
SHADOWS  
SKY  
THUNDERSTORMS  
WEATHER  
CLUMPS  
0404 1902 2311 3009  
UF CLUSTERS  
RT AGGLOMERATION  
PATTERN RECOGNITION  
REGRESSION ANALYSIS  
CLUSTERS  
USE CLUMPS  
CLUTCHES  
1504  
RT ENGINE PARTS  
MECHANICAL DEVICES  
#MECHANICAL DRIVES  
CLUTTER  
0704 0705 1301 1302 2402  
BT #ECHOES  
RADAR ECHOES  
RT JAMMING  
RADIO FREQUENCY INTERFERENCE  
COAGULATION  
0403 0404 0408  
NT BLOOD COAGULATION  
RT ACCUMULATIONS  
AGGLOMERATION  
BLOOD  
COALESCING  
CONCENTRATING  
#DEPOSITION  
EMBOLISMS  
FLOCCULATING  
FLOTATION  
GELATION  
#HARDENING (MATERIALS)  
HEMORRHAGES

# COAL

LUMPING  
PRECIPITATION (CHEMISTRY)  
SEPARATION  
SETTLING  
SETTLING  
SOLIDIFICATION  
THROMBOGENIA  
WATER TREATMENT

COAL  
1306 1805 1806 1808  
BT CARBONACEOUS ROCKS  
EARTH RESOURCES  
ROCKS  
SEDIMENTARY ROCKS

RT ASHES  
BITUMENS  
COKE  
#FUELS  
COALESCENCE  
USE COALESCING  
COALESCING  
0602 1202  
UP COALESCENCE  
RT AGGLOMERATION  
AGITATION  
COAGULATION  
CONCENTRATING  
FLOCCULATING  
MIXERS  
SEPARATION  
SETTLING  
THICKENERS (EQUIPMENT)

COANDA EFFECT  
1201 1202 1203  
RT ATTACHMENT  
BUBBLES  
ENTRAINMENT  
FLUID AMPLIFIERS  
JET AMPLIFIERS  
JET STREAMS (METEOROLOGY)  
REATTACHED FLOW  
SEPARATION  
THRUST AUGMENTATION

COARSENESS  
3408  
RT FINENESS  
REFLECTANCE  
ROUGHNESS  
#SURFACE PROPERTIES  
SURFACE ROUGHNESS  
SURFACE STABILITY  
SURFACE TEMPERATURE

COASTAL ECOLOGY  
0404  
BT ECOLOGY  
RT BIOCLIMATOLOGY  
COASTS  
EARTH RESOURCES  
#ENVIRONMENTS  
THERMAL POLLUTION

COASTING FLIGHT  
0101 0201 3009  
RT ASCENT TRAJECTORIES  
BALLISTIC TRAJECTORIES  
CLIMBING FLIGHT  
CROISING FLIGHT  
DESCENT TRAJECTORIES  
FLIGHT  
MIDCOURSE TRAJECTORIES  
PARABOLIC FLIGHT  
ROCKET FLIGHT  
SOARING

COASTS  
1305 1306  
RT BEACHES  
CASPIAN SEA  
COASTAL ECOLOGY  
CORAL REEFS  
ESTUARIES  
LAKES  
OCEANS  
SEAS

COATING  
0604 1802  
UP SURFACE COATINGS  
NT ANODIZING  
ELECTROPLATING  
ENCAPSULATING  
METALLIZING  
RT #COATINGS  
CORROSION PREVENTION  
#DEPOSITION

FLAME PLATING  
FLAME SPRAYING  
LINING PROCESSES  
#METAL FINISHING  
METAL SPRAYING  
METALLURGY  
PLASMA SPRAYING  
PRIMING  
SEALING  
SILICONIZING  
SPRAYING  
SURFACE FINISHING  
#SURFACE PROPERTIES  
VAPOR DEPOSITION

#COATINGS  
1802  
NT ALUMINUM COATINGS  
ANODIC COATINGS  
ANTIRADAR COATINGS  
BIREFRINGENT COATINGS  
CERAMIC COATINGS  
ELECTROPLATING  
ENAMELS  
ENCAPSULATING  
GLASS COATINGS  
GLAZES  
GOLD COATINGS  
INORGANIC COATINGS  
LACQUERS  
MAGNETIC FILMS  
METAL COATINGS  
METALLIZING  
NICKEL COATINGS  
PAINTS  
PLASTIC COATINGS  
PRIMERS (COATINGS)  
PROTECTIVE COATINGS  
RUBBER COATINGS  
SPRAYED COATINGS  
THERMAL CONTROL COATINGS  
ZINC COATINGS

BT #ADDITIVES  
COATING  
#COMPOSITE MATERIALS  
CORROSION  
CORROSION PREVENTION  
COVERINGS  
CRYODEPOSITS  
#DEPOSITION  
#DEPOSITS  
DIPPING  
ENERGY ABSORPTION FILMS  
EPOXY RESINS  
FABRICS  
FILMS  
FINISHES  
FLAME SPRAYING  
FURAN RESINS  
IMPREGNATING  
INHIBITORS  
LAMINATES  
LAYERS  
LINING PROCESSES  
LININGS  
METAL FILMS  
#METAL FINISHING  
METAL SPRAYING  
PASSIVITY  
PAVEMENTS  
PLASMA SPRAYING  
PLASTICIZERS  
PRIMING  
#PROTECTION  
RUSTING  
SEALERS  
SEALING  
SHEETS  
SILICONIZING  
SOLVENTS  
SPRAYING  
SUBSTRATES  
SURFACE FINISHING  
#SURFACE PROPERTIES  
THIN FILMS  
VAPOR DEPOSITION  
VENEERS  
WATERPROOFING  
WAXES  
WEATHERPROOFING  
WINGS

COAXIAL CABLES  
0701 0702 0705

# NASA THESAURUS (ALPHABETICAL LISTING)

UP COAXIAL TRANSMISSION  
BT COMMUNICATION CABLES  
#TRANSMISSION LINES  
RT POWER LINES  
SUBMARINE CABLES  
WAVEGUIDES

COAXIAL FLOW  
1202 1203 2502  
BT #FLUID FLOW  
RT ANNULAR FLOW  
ANNULAR NOZZLES  
AXIAL FLOW  
AXISYMMETRIC FLOW  
COAXIAL PLASMA ACCELERATORS  
FLOW GEOMETRY  
HILSCH TUBES  
SHEAR FLOW  
STRATIFIED FLOW  
TWO DIMENSIONAL FLOW

COAXIAL PLASMA ACCELERATORS  
2501  
BT PLASMA ACCELERATORS  
RT COAXIAL FLOW  
PLASMA ENGINES  
PLASMA GUNS

COAXIAL TRANSMISSION  
USE COAXIAL CABLES  
#TRANSMISSION

COBALT  
1703  
NT COBALT ISOTOPES  
COBALT 58  
COBALT 60  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS

COBALT ACETATES  
0403 0603 1804 1808  
BT ACETATES  
#ESTERS

COBALT ALLOYS  
1701 1704  
NT RENE 41  
RENE 63  
RENE 77  
BT #ALLOYS  
RT HEAT RESISTANT ALLOYS  
KOVAR (TRADEMARK)  
STELLITE (TRADEMARK)  
WASPALLOY

COBALT COMPOUNDS  
0603 1804  
RT GROUP 8 COMPOUNDS  
METAL COMPOUNDS

COBALT FLUORIDES  
0603 1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES

COBALT ISOTOPES  
2406  
NT COBALT 58  
COBALT 60  
BT #CHEMICAL ELEMENTS  
COBALT  
ISOTOPES  
NUCLIDES  
TRANSITION METALS

COBALT OXALATES  
0603 1804  
BT OXALATES  
COBALT OXIDES  
0603 1804  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES

COBALT 58  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
COBALT  
COBALT ISOTOPES  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSITION METALS

COBALT 60  
0603 2406  
BT #CHEMICAL ELEMENTS  
COBALT  
COBALT ISOTOPES

# NASA THESAURUS (ALPHABETICAL LISTING)

ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSITION METALS

COBOL  
0802  
BT #LANGUAGES  
MACHINE ORIENTED LANGUAGES  
RT FORTRAN  
MACHINE ORIENTED LANGUAGES  
PL/1

COCCONICES  
0404 0409  
BT FUNGI  
#PLANTS (BOTANY)

COCHLEA  
0404  
BT #ANATOMY  
EAR  
LABYRINTH  
SENSE ORGANS  
RT CORTI ORGAN

COCK AIRCRAFT  
USE AN-22 AIRCRAFT

COCKPIT SIMULATORS  
1107 1108  
BT FLIGHT SIMULATORS  
#SIMULATORS  
TRAINING SIMULATORS  
RT SPACECRAFT CABIN SIMULATORS  
TRAINING DEVICES

COCKPITS  
0202 0504 0506 3104  
RT AIRCRAFT COMPARTMENTS  
CABIN ATMOSPHERES  
CABINS  
CANOPIES  
EJECTION SEATS  
FUSELAGES  
PRESSURIZED CABINS  
#SPACE CAPSULES  
SPACECRAFT CABIN ATMOSPHERES  
SPACECRAFT CABINS  
WINDSHIELDS

COCKROACHES  
0402  
UP BLATTIDAE  
BT #ANIMALS  
ARTHROPODS  
INSECTS  
INVERTEBRATES

COCKS  
1504  
UP STOPCOCKS  
BT #VALVES  
RT GAS VALVES  
HYDRAULIC EQUIPMENT

COD AIRCRAFT  
USE C-2 AIRCRAFT

CODERS  
0701 0801  
UP ENCODERS  
RT ANALOG TO DIGITAL CONVERTERS  
CODING  
DECODERS  
PROGRAMMERS

CODES  
0703 0802 3401 3405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BCH CODES  
BINARY CODES  
BITERNARY CODE  
CODING  
DIGITS  
ERROR DETECTION CODES  
MORSE CODE  
STANDARDS  
SYMBOLS

CODING  
0503 0702 0703 0802  
UP ENCODING  
NOTATION  
NT DECODING  
REDUNDANCY ENCODING  
SIGNAL ENCODING  
WISWESSER NOTATIONS  
RT ADDRESSING  
ALPHABETS  
ANALOG TO DIGITAL CONVERTERS  
BCH CODES

CODERS  
CODES  
COMPUTER PROGRAMMING  
#COMPUTER PROGRAMS  
DATA TRANSMISSION  
DICTIONARIES  
DIGITAL TECHNIQUES  
ERROR DETECTION CODES  
IDENTIFYING  
INFORMATION THEORY  
#LANGUAGES  
PARITY  
PULSE COMPRESSION  
SYMBOLIC PROGRAMMING  
SYMBOLS

COEFFICIENT OF FRICTION  
1503 1703 1802 1805 2308 2401  
UP FRICTION COEFFICIENT  
BT #COEFFICIENTS  
#SURFACE PROPERTIES  
RT #FRICTION  
FRICTION FACTOR  
FRICTION REDUCTION  
KINETIC FRICTION  
SLIDING FRICTION  
STATIC FRICTION

#COEFFICIENTS  
1902 3406  
UP RESISTANCE COEFFICIENTS  
TRANSPORT COEFFICIENTS  
WEIGHTS (COEFFICIENTS)  
NT ACCOMMODATION COEFFICIENT  
AERODYNAMIC COEFFICIENTS  
ATTENUATION COEFFICIENTS  
BINOMIAL COEFFICIENTS  
CLEBSCH-GORDAN COEFFICIENTS  
COEFFICIENT OF FRICTION  
COHERENCE COEFFICIENT  
CORRELATION COEFFICIENTS  
COUPLING COEFFICIENTS  
DIFFUSION COEFFICIENT  
DISCHARGE COEFFICIENT  
FLOW COEFFICIENTS  
HEAT TRANSFER COEFFICIENTS  
INFLUENCE COEFFICIENT  
IONIZATION COEFFICIENTS  
NOZZLE THRUST COEFFICIENTS  
ONSAGER PHENOMENOLOGICAL  
COEFFICIENT  
RECOMBINATION COEFFICIENT  
REGRESSION COEFFICIENTS  
SCATTERING COEFFICIENTS  
SORET COEFFICIENT  
STRUCTURAL INFLUENCE COEFFICIENTS  
WIGNER COEFFICIENT  
RT CONSTANT  
#CONSTANTS  
#MECHANICAL PROPERTIES  
OPTICAL PROPERTIES  
POLYNOMIALS  
#STATISTICAL ANALYSIS  
WEIGHT

COENZYMES  
0403 1808  
BT ENZYMES  
#PROTEINS

COERCIVITY  
2307 3408  
RT #MAGNETIC PROPERTIES  
MAGNETIZATION

COESITE  
1806 3005  
BT #CHALCOGENIDES  
DIOXIDES  
#MINERALS  
OXIDES  
#SILICON COMPOUNDS  
SILICON DIOXIDE  
SILICON OXIDES  
RT METEORITES  
STONY METEORITES  
TEKTITES

COGNITION  
0408 0410 0503 0506  
RT ARTIFICIAL INTELLIGENCE  
DECISION MAKING  
IDENTIFYING  
#PERCEPTION

COGO (PROGRAMMING LANGUAGE)  
0802  
UP COORDINATE GEOMETRY LANGUAGE  
BT #LANGUAGES

## #COHERENT RADIATION

MACHINE ORIENTED LANGUAGES  
RT PROGRAMMING

COHENITE  
1804 1806  
BT #IRON COMPOUNDS  
#MINERALS  
NICKEL COMPOUNDS

COHERENCE  
0705 0710 1601 2306 2310 2402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #COHERENT RADIATION  
COHERENT SCATTERING  
COHESION  
CONGRUENCES  
ELASTIC SCATTERING  
INTELLIGIBILITY  
LASER OUTPUTS  
LASERS  
LASER OUTPUTS  
PHASE COHERENCE  
WAVE DISPERSION  
WAVE PROPAGATION

COHERENCE COEFFICIENT  
2306 2310 2402  
BT #COEFFICIENTS  
RT COHERENT RADAR  
#COHERENT RADIATION  
INTERFERENCE  
NOISE PROPAGATION  
PHASE COHERENCE  
#STOCHASTIC PROCESSES

COHERENT ACOUSTIC RADIATION  
2312  
UP COHERENT SOUND  
BT #COHERENT RADIATION  
#ELASTIC WAVES  
RT ULTRASONIC RADIATION  
UNDERWATER ACOUSTICS

COHERENT ELECTROMAGNETIC RADIATION  
0710 2402  
NT COHERENT LIGHT  
BT #COHERENT RADIATION  
#ELECTROMAGNETIC RADIATION  
RT #BEAMS (RADIATION)  
HOLOGRAPHY  
INFRARED RADIATION  
#IONIZING RADIATION  
LASERS  
LIGHT (VISIBLE RADIATION)  
LASERS  
MODULATED CONTINUOUS RADIATION  
MONOCHROMATIC RADIATION  
RADIO WAVES  
STIMULATED EMISSION  
#STIMULATED EMISSION DEVICES  
TRAVELING WAVE LASERS  
ULTRAVIOLET RADIATION

COHERENT LIGHT  
1601 2306 2310 2402  
BT COHERENT ELECTROMAGNETIC RADIATION  
#COHERENT RADIATION  
#ELECTROMAGNETIC RADIATION  
LIGHT (VISIBLE RADIATION)  
RT HOLOGRAPHY  
LASER OUTPUTS  
LASERS  
MONOCHROMATIC RADIATION  
PHASE COHERENCE  
STIMULATED EMISSION

COHERENT RADAR  
0705 1601 2310 2402  
BT #RADAR  
RT COHERENCE COEFFICIENT  
CONTINUOUS WAVE RADAR  
DOPPLER RADAR  
MOVING TARGET INDICATORS  
PULSE DOPPLER RADAR  
PULSE RADAR  
RADAR DETECTION  
SEARCH RADAR  
SURVEILLANCE RADAR  
TRACKING RADAR

#COHERENT RADIATION  
0705 0710 1601 2306 2310 2402  
UP COHERENT SOURCES  
COHERENT TRANSMISSION  
NT COHERENT ACOUSTIC RADIATION  
COHERENT ELECTROMAGNETIC RADIATION  
COHERENT LIGHT  
RT #BEAMS (RADIATION)

## COHERENT SCATTERING

COHERENCE  
 COHERENCE COEFFICIENT  
 COHERENT SCATTERING  
 CONTINUOUS RADIATION  
 CORPUSCULAR RADIATION  
 #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 LIGHT (VISIBLE RADIATION)  
 OPTICAL PROPERTIES  
 RADIATION  
 RAYS  
 WAVE PROPAGATION  
 COHERENT SCATTERING  
 2402 2403  
 BT #SCATTERING  
 RT COHERENCE  
 #COHERENT RADIATION  
 COMPTON EFFECT  
 ELASTIC SCATTERING  
 INCOHERENT SCATTERING  
 INELASTIC SCATTERING  
 NUCLEAR SCATTERING  
 COHERENT SOUND  
 USE COHERENT ACOUSTIC RADIATION  
 SOUND WAVES  
 COHERENT SOURCES  
 USE #COHERENT RADIATION  
 RADIATION SOURCES  
 COHERENT TRANSMISSION  
 USE #COHERENT RADIATION  
 COHESION  
 0603 2401 2404  
 RT #BONDING  
 COHERENCE  
 INTERNAL FRICTION  
 INTERNAL PRESSURE  
 PLASTIC PROPERTIES  
 SPREADING  
 COHOMOLOGY  
 USE HOMOMOLOGY  
 COILS  
 0904 1504 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #ELECTRIC COILS  
 INDUCTORS  
 MAGNET COILS  
 MAGNETIC COILS  
 SPRINGS (ELASTIC)  
 TOROIDS  
 #WIRE  
 COIN AIRCRAFT  
 0207  
 UP LARA AIRCRAFT  
 LIGHT ARMED RECONNAISSANCE AIRCRAFT  
 NT F-5 AIRCRAFT  
 OV-10 AIRCRAFT  
 RT LIGHT INTRATHEATER TRANSPORT  
 COINCIDENCE CIRCUITS  
 0902 0905 1002 1410  
 BT #CIRCUITS  
 RT GATES (CIRCUITS)  
 RADIATION COUNTERS  
 SYNCHRONISM  
 COINING  
 1504 1704  
 BT #FORMING TECHNIQUES  
 #METAL WORKING  
 PRESSING (FORMING)  
 RT COLD PRESSING  
 COLD WORKING  
 DIES  
 FORGING  
 HOT PRESSING  
 SIZING (SHAPING)  
 STAMPING  
 COKE  
 1805  
 RT BITUMENS  
 CARBON  
 CHARCOAL  
 COAL  
 #FUELS  
 COKE AIRCRAFT  
 USE AN-24 AIRCRAFT  
 COLCHICINE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKALOIDS  
 CYCLIC HYDROCARBONS  
 #HETEROCYCLIC COMPOUNDS

#HYDROCARBONS  
 #NITROGEN COMPOUNDS  
 COLD ACCLIMATIZATION  
 0404 0408  
 BT ACCLIMATIZATION  
 #ADAPTATION  
 RT COLD WEATHER  
 COLD WEATHER TESTS  
 SUBZERO TEMPERATURE  
 COLD BOKKEVELD METEORITE  
 3005  
 BT CARBONACEOUS METEORITES  
 #CELESTIAL BODIES  
 CHONDRITES  
 METEORITES  
 STONY METEORITES  
 COLD CATHODE TUBES  
 0903 0905  
 NT FREQUENCY MODULATION  
 PHOTOMULTIPLIERS  
 PHOTOMULTIPLIER TUBES  
 PHOTOTUBES  
 BT CATHODES  
 #ELECTRODES  
 TUBE CATHODES  
 RT COLD CATHODES  
 GAS DISCHARGES  
 GAS TUBES  
 TUNNEL CATHODES  
 COLD CATHODES  
 0905  
 BT CATHODES  
 #ELECTRODES  
 TUBE CATHODES  
 RT COLD CATHODE TUBES  
 GAS DISCHARGES  
 TUNNEL CATHODES  
 COLD DRAWING  
 1704  
 RT DEEP DRAWING  
 DRAWING  
 METAL DRAWING  
 COLD FLOW TESTS  
 1108 2804  
 (EXCLUDES MECHANICAL CREEP, TESTS)  
 BT ENGINE TESTS  
 #GROUND TESTS  
 RT CHECKOUT  
 FEED SYSTEMS  
 PLASTIC PROPERTIES  
 PRELAUNCH TESTS  
 PROPELLANT TESTS  
 PROPULSION SYSTEM PERFORMANCE  
 ROCKET ENGINE DESIGN  
 STATIC TESTS  
 COLD FORMING  
 USE COLD WORKING  
 COLD GAS  
 0603 1203 3304  
 BT #GASES  
 COLD HARDENING  
 1704  
 (LIMITED TO HARDENING OF MATERIALS BY  
 COOLING TO VERY LOW TEMPERATURES--  
 EXCLUDES PRECIPITATION HARDENING AT OR  
 NEAR ROOM TEMPERATURE AND HARDENING  
 VIA COLD WORKING)  
 BT #HARDENING (MATERIALS)  
 RT BRITTLNESS  
 HARDNESS  
 #PHASE TRANSFORMATIONS  
 PRECIPITATION HARDENING  
 WORK HARDENING  
 COLD HOLDING  
 USE COLD PRESSING  
 COLD NEUTRONS  
 2403  
 BT ELEMENTARY PARTICLES  
 FERMIONS  
 NEUTRAL PARTICLES  
 NEUTRONS  
 #PARTICLES  
 COLD PLASMAS  
 2502  
 RT #PLASMAS (PHYSICS)  
 RT COLLISIONLESS PLASMAS  
 #PARTICLES  
 RAREFIED PLASMAS  
 COLD PLATES  
 USE COLD SURFACES  
 COLD PRESSING  
 1704

## NASA THESAURUS (ALPHABETICAL LISTING)

UP COLD HOLDING  
 RT COINING  
 COMPACTING  
 HOT PRESSING  
 #METAL WORKING  
 PRESSING  
 PRESSING (FORMING)  
 COLD ROLLING  
 1704  
 BT COLD WORKING  
 #FORMING TECHNIQUES  
 RT #METAL WORKING  
 COLD STRENGTH  
 1704 3203  
 BT #MECHANICAL PROPERTIES  
 RT HIGH TEMPERATURE TESTS  
 LOW TEMPERATURE ENVIRONMENTS  
 LOW TEMPERATURE TESTS  
 COLD SURFACES  
 3203 3303  
 UP COLD PLATES  
 COLD WALLS  
 RT CRYOGENIC FLUID STORAGE  
 SUBFACES  
 COLD TOLERANCE  
 0408  
 BT TOLERANCES (PHYSIOLOGY)  
 RT BODY TEMPERATURE  
 COLD WEATHER  
 EXPOSURE  
 FROSTBITE  
 HEAT TOLERANCE  
 HOMEOSTASIS  
 SUBZERO TEMPERATURE  
 THERMOREGULATION  
 VASOCONSTRICTION  
 COLD TRAPS  
 1406 1506 2303  
 BT TRAPS  
 RT CONDENSERS (LIQUIFIERS)  
 CRYOGENICS  
 CRYOTRAPPING  
 FREEZING  
 REFRIGERATING  
 #VACUUM APPARATUS  
 VAPOR TRAPS  
 COLD WALLS  
 USE COLD SURFACES  
 WALLS  
 COLD WATER  
 0603 3304  
 BT WATER  
 RT POTABLE WATER  
 COLD WEATHER  
 0508 2001 2003  
 BT WEATHER  
 RT COLD ACCLIMATIZATION  
 COLD TOLERANCE  
 LOW TEMPERATURE ENVIRONMENTS  
 SNOW COVER  
 SUBZERO TEMPERATURE  
 WEATHERPROOFING  
 WINTER  
 COLD WEATHER TESTS  
 1108 1505 3305  
 BT #ENVIRONMENTAL TESTS  
 RT COLD ACCLIMATIZATION  
 HIGH TEMPERATURE TESTS  
 LOW TEMPERATURE TESTS  
 COLD WELDING  
 0603 2311  
 RT ADHESION  
 #BONDING  
 HIGH VACUUM  
 VACUUM EFFECTS  
 COLD WORKING  
 1704  
 UP COLD FORMING  
 NT COLD ROLLING  
 ELECTROHYDRAULIC FORMING  
 EXPLOSIVE FORMING  
 BT #FORMING TECHNIQUES  
 RT CLADDING  
 COINING  
 DEEP DRAWING  
 EXTRUDING  
 FORGING  
 JOINING  
 MAGNETIC FORMING  
 METAL DRAWING  
 METAL SPINNING  
 #METAL WORKING

# NASA THESAURUS (ALPHABETICAL LISTING)

PEENING  
 ROLL FORMING  
 SHEARING  
 SHOT PEENING  
 STAMPING  
 STRETCH FORMING  
 STRETCHING  
 TEMPER (METALLURGY)  
 WINDING  
 COLEOPTERA  
 0402  
 BT #ANIMALS  
 ARTHROPODS  
 INSECTS  
 INVERTEBRATES  
 COLIC  
 0405  
 BT #DISEASES  
 BT GASTROINTESTINAL SYSTEM  
 INTESTINES  
 COLLAGENS  
 0403 0404  
 BT #ANATOMY  
 #CELLS (BIOLOGY)  
 CONNECTIVE TISSUE  
 FIBROBLASTS  
 MUSCULOSKELETAL SYSTEM  
 RT GELATINS  
 LEATHER  
 #PROTEINS  
 SKIN (ANATOMY)  
 COLLAPSE  
 3203  
 RT BUCKLING  
 #DEFORMATION  
 FAILURE  
 STRUCTURAL FAILURE  
 COLLATING  
 0803 3407  
 UF TAPE MERGING  
 RT BINDING  
 COMPILERS  
 CORRELATION  
 INSERTION  
 POSITION (LOCATION)  
 POSITIONING  
 COLLECTION  
 3407  
 RT ACCUMULATIONS  
 ACQUISITION  
 ASSEMBLING  
 INPUT  
 LUMPING  
 MUSEUMS  
 RECEIVING  
 SAMPLING  
 #SELECTION  
 STOCKPILING  
 COLLECTORS  
 USE #ACCUMULATORS  
 COLLEGES  
 USE UNIVERSITIES  
 COLLIMATION  
 2306 2310 2402 2403  
 UF BEAMSHAPING  
 RT ADJUSTING  
 ALIGNMENT  
 COLLIMATORS  
 DIRECTIVITY  
 MICROBEAMS  
 ORIENTATION  
 POLARIZATION (WAVES)  
 COLLIMATORS  
 1411 2310  
 UF AUTOCOLLIMATORS  
 BT #OPTICAL EQUIPMENT  
 RT BEAM WAVEGUIDES  
 COLLIMATION  
 MIRRORS  
 #OPTICAL MEASUREMENT  
 COLLINEARITY  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 #GEOMETRY  
 LINEARITY  
 REAL VARIABLES  
 VECTOR ANALYSIS  
 COLLISION AVOIDANCE  
 0203 1402 2101  
 UF COLLISION WARNING DEVICES  
 BT AVOIDANCE

RT AIR NAVIGATION  
 AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIRCRAFT APPROACH SPACING  
 AIRCRAFT GUIDANCE  
 AIRCRAFT SAFETY  
 AIRSPACE  
 APPROACH CONTROL  
 COLLISIONS  
 FLIGHT PATHS  
 FLIGHT RULES  
 FLIGHT SAFETY  
 MIDAIR COLLISIONS  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 #RADAR  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 #TRAFFIC CONTROL  
 VISUAL FLIGHT  
 WARNING  
 #WARNING SYSTEMS  
 COLLISION PARAMETERS  
 1203 1904 2401 2404 2405 2502  
 NT COLLISION RATES  
 BT #RATES (PER TIME)  
 RT ABSORPTION  
 CROSS SECTIONS  
 MEAN FREE PATH  
 NUCLEAR INTERACTIONS  
 #PARTICLE INTERACTIONS  
 PARTICLE THEORY  
 #SCATTERING  
 COLLISION RATES  
 2401 2403 2404  
 BT COLLISION PARAMETERS  
 #RATES (PER TIME)  
 COLLISION WARNING DEVICES  
 USE COLLISION AVOIDANCE  
 #WARNING SYSTEMS  
 COLLISIONLESS PLASMAS  
 2502  
 BT #PLASMAS (PHYSICS)  
 RT COLD PLASMAS  
 IONIC WAVES  
 LOW DENSITY RESEARCH  
 #PARTICLES  
 RAREFIED PLASMAS  
 COLLISIONS  
 2308 2401 2405 2502 3009  
 NT ATOMIC COLLISIONS  
 COULOMB COLLISIONS  
 INELASTIC COLLISIONS  
 IONIC COLLISIONS  
 METEORITE COLLISIONS  
 MIDAIR COLLISIONS  
 MOLECULAR COLLISIONS  
 PARTICLE COLLISIONS  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT ACCIDENTS  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY  
 COLLISION AVOIDANCE  
 #CRASHES  
 FLIGHT HAZARDS  
 FLIGHT PATHS  
 PILOT ERROR  
 RECOILINGS  
 #SCATTERING  
 COLLOCATION  
 1902 3405 3407  
 RT ASSEMBLIES  
 ASSEMBLY  
 CONGRUENCES  
 POSITION (LOCATION)  
 POSITIONING  
 COLLOIDAL GENERATORS  
 0302 0604 1202  
 RT ATOMIZING  
 COLLOIDAL PROPELLANTS  
 DISPERSIONS  
 GENERATORS  
 PLASMA DIFFUSION  
 #PLASMA GENERATORS  
 SPRAYERS  
 VAPORIZERS  
 COLLOIDAL PROPELLANTS  
 2702 2804 2809  
 UF CORDITE  
 BT COLLOIDS  
 DISPERSIONS  
 #MIXTURES

# COLOR PHOTOGRAPHY

#PROPELLANTS  
 RT COLLOIDAL GENERATORS  
 GELLED PROPELLANTS  
 SLURRY PROPELLANTS  
 SOLID PROPELLANTS  
 SOLID SUSPENSIONS  
 COLLOIDING  
 0603  
 UF LYOPHILIZATION  
 BT MIXING  
 RT AGITATION  
 ATOMIZING  
 COLLOIDS  
 COMMINGTION  
 COMPOUNDING  
 DISPERSING  
 FLOCCULATING  
 GELATION  
 HOMOGENIZING  
 PRECIPITATION (CHEMISTRY)  
 SUSPENDING (MIXING)  
 COLLOIDS  
 0603  
 UF LYOPHILS  
 NT AEROSOLS  
 COLLOIDAL PROPELLANTS  
 FOG  
 BT DISPERSIONS  
 #MIXTURES  
 RT BROWNIAN MOVEMENTS  
 CLAYS  
 COLLOIDING  
 ELECTRODIALYSIS  
 ELECTROPHORESIS  
 EMULSIONS  
 FOAMS  
 GELS  
 HOMEOSTASIS  
 NONNEWTONIAN FLUIDS  
 #PARTICLES  
 PLASTISOLS  
 SEPARATION  
 COLOMBIA  
 1305  
 RT NATIONS  
 SOUTH AMERICA  
 COLONIES  
 0404  
 RT BACTERIA  
 COLOR  
 1411 2306 2310  
 UF COLORATION  
 RT BRIGHTNESS  
 COLOR VISION  
 COLORIMETRY  
 CONTRAST  
 DARKNESS  
 DICHROISM  
 DISCOLORATION  
 ELECTROMAGNETIC PROPERTIES  
 #FADING  
 HUMAN FACTORS ENGINEERING  
 INCANDESCENCE  
 ISOCROMATICS  
 LIGHT (VISIBLE RADIATION)  
 #PERCEPTION  
 PHOTOTROPISM  
 PHYSICAL PROPERTIES  
 PREWHITENING  
 #SPECTRA  
 #SURFACE PROPERTIES  
 SYMBOLS  
 THERMOCHROMATIC MATERIALS  
 VISIBILITY  
 VISION  
 WAVE DISPERSION  
 COLOR BLINDNESS  
 USE COLOR VISION  
 COLOR CENTERS  
 0408 0601 0604 2601  
 UF F CENTERS  
 RT CENTERS  
 PRANCK-CONDON PRINCIPLE  
 COLOR PERCEPTION  
 USE COLOR VISION  
 COLOR PHOTOGRAPHY  
 1407  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT AERIAL PHOTOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 CINEMATOGRAPHY

# COLOR TELEVISION

ORTHOGRAPHY  
PHOTOCHROMISM  
SHADOWGRAPH PHOTOGRAPHY  
STEREOPHOTOGRAPHY  
ULTRAVIOLET PHOTOGRAPHY  
UNDERWATER PHOTOGRAPHY

COLOR TELEVISION  
0702  
RT CLOSED CIRCUIT TELEVISION  
#COMMUNICATING  
#COMMUNICATION EQUIPMENT  
EDUCATIONAL TELEVISION  
SATELLITE TELEVISION  
SPACECRAFT TELEVISION  
STEREOTELEVISION  
TELEVISION RECEPTION  
TELEVISION TRANSMISSION

COLOR VISION  
0404 0408  
UF COLOR BLINDNESS  
COLOR PERCEPTION  
BT VISION  
RT COLOR  
EYE (ANATOMY)  
YOUNG-HELMHOLTZ THEORY

COLORADO  
1305  
BT UNITED STATES OF AMERICA

COLORATION  
USE COLOR

COLORIMETRY  
1406 1411 2306 2310  
BT #OPTICAL MEASUREMENT  
RT CHEMICAL ANALYSIS  
CHROMATOGRAPHY  
COLOR  
ELECTROPHOTOMETRY  
OPTICAL MEASURING INSTRUMENTS  
PHOTOMETRY  
SPECTROPHOTOMETRY  
#SPECTROSCOPY  
THERMOCHROMATIC MATERIALS

COLPIDIA  
0402  
BT #ANIMALS  
FLAGELLATA  
INVERTEBRATES  
#MICROORGANISMS  
PROTOZOA

COLUMBIUM  
USE BIOBIUM

COLUMNS  
3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COLUMNS (PROCESS ENGINEERING)  
COLUMNS (SUPPORTS)  
COLUMNS (PROCESS ENGINEERING)  
3404  
RT ABSORBERS (EQUIPMENT)  
CHEMICAL REACTORS  
COLUMNS  
CONCENTRATORS  
CONDENSERS (LIQUIFIERS)  
CONTACTORS  
CONTRACTORS  
DEHYDRATION  
DEHYDROGENATION  
DISTILLATION EQUIPMENT  
DRYING APPARATUS  
EXTRACTION  
SCRUBBERS  
#SEPARATORS  
VAPORIZERS  
COLUMNS (SUPPORTS)  
3203  
UF BEAM COLUMNS  
NT TAPERED COLUMNS  
BT #STRUCTURAL MEMBERS  
RT BEAMS (SUPPORTS)  
COLUMNS  
PYLON MOUNTING  
PYLONS  
STRUTS  
STUDS (STRUCTURAL MEMBERS)  
TOWERS

CONA  
0404 0408 2310 3001  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ABERRATION  
BLACKOUT (PHYSIOLOGY)  
BLACKOUT PREVENTION  
COMETS  
SCREEN EFFECT  
#UNCONSCIOUSNESS

COMBAT  
3401  
BT WARFARE

COMBINATION  
1902 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ADMIXTURES  
COMBINATIONS (MATHEMATICS)  
1902  
BT COMBINATORIAL ANALYSIS  
RT PARTITIONS (MATHEMATICS)  
PERMUTATIONS

COMBINATORIAL ANALYSIS  
1902 1903  
NT BINOMIAL COEFFICIENTS  
COMBINATIONS (MATHEMATICS)  
FACTORIALS  
PARTITIONS (MATHEMATICS)  
PERMUTATIONS  
BT #ANALYSIS (MATHEMATICS)  
RT APPLICATIONS OF MATHEMATICS  
INFORMATION THEORY  
#NUMBER THEORY  
PROBABILITY THEORY  
SET THEORY

COMBINED STRESS  
3203  
BT #STRESSES

COMBUSTIBILITY  
USE FLAMMABILITY

COMBUSTIBLE FLOW  
1203 3301  
BT #FLUID FLOW  
RT BOUNDARY LAYER COMBUSTION  
COMBUSTION PHYSICS  
COMBUSTION PRODUCTS  
DETONATION WAVES  
FLAME PROPAGATION  
FUEL FLOW  
TURBULENT FLOW

#COMBUSTION  
3301  
UF BURNING  
BURNING PROCESS  
AFTERBURNING  
BOUNDARY LAYER COMBUSTION  
DEFLAGRATION  
FUEL COMBUSTION  
HYDROCARBON COMBUSTION  
HYPERSONIC COMBUSTION  
METAL COMBUSTION  
PROPELLANT COMBUSTION  
SOLID PROPELLANT IGNITION  
SPONTANEOUS COMBUSTION  
SUPERSONIC COMBUSTION  
RT BURNING RATE  
BURNING TIME  
BURNOUT  
CHARRING  
CHEMICAL EXPLOSIONS  
COMBUSTION EFFICIENCY  
COMBUSTION PHYSICS  
COMBUSTION PRODUCTS  
COMBUSTION STABILITY  
COMBUSTION TEMPERATURE  
DETONATION  
DIFFUSION FLAMES  
EXOTHERMIC REACTIONS  
#EXPLOSIONS  
EXTINGUISHING  
FIRES  
FLAME PROPAGATION  
FLAMEOUT  
FLAMES  
FLAMMABILITY  
FLASHBACK  
HEAT BALANCE  
HEAT GENERATION  
IGNITION  
IGNITION LIMITS  
INCENDIARY AMMUNITION  
INTERNAL COMBUSTION ENGINES  
OXIDATION  
PHYSICS

NASA THESAURUS (ALPHABETICAL LISTING)

QUENCHING (COOLING)  
SPARK IGNITION

COMBUSTION CHAMBERS  
0602 2801 2805 2808 3301  
UF COMBUSTORS  
ROCKET CHAMBERS  
ROCKET COMBUSTORS  
BURNERS  
CHAMBERS  
ENGINE PARTS  
#ENGINES  
FLAME HOLDERS  
FLAMEOUT  
FURNACES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
PISTONS  
REFRACTORIES  
SPARK PLUGS  
THRUST CHAMBERS

COMBUSTION CONTROL  
2801 2805 2808 3301  
RT #AUTOMATIC CONTROL  
BURNING RATE  
CONTROL  
ENGINE CONTROL  
FUEL CONTROL  
REACTION CONTROL  
TEMPERATURE CONTROL

COMBUSTION EFFICIENCY  
0603 2203 2701 2702 3301  
BT #EFFICIENCY  
RT BURNING RATE  
BURNING TIME  
#COMBUSTION  
COMBUSTION PRODUCTS  
COMBUSTION STABILITY  
COMPRESSOR EFFICIENCY  
EXHAUST GASES  
FUEL-AIR RATIO  
FUEL COMBUSTION  
FUEL CONSUMPTION  
POWER EFFICIENCY  
PROPELLANT COMBUSTION  
PROPULSION SYSTEM PERFORMANCE  
PROPULSIVE EFFICIENCY  
THERMODYNAMIC EFFICIENCY

COMBUSTION HEAT  
USE HEAT OF COMBUSTION

COMBUSTION INSTABILITY  
USE COMBUSTION STABILITY

COMBUSTION PHYSICS  
2311 3301  
BT THERMODYNAMICS  
RT AEROTHERMODYNAMICS  
COMBUSTIBLE FLOW  
#COMBUSTION  
COMBUSTION STABILITY  
COMBUSTION TEMPERATURE  
FLAME PROPAGATION  
HEAT OF COMBUSTION  
IGNITION  
#PLASMAS (PHYSICS)  
THERMOCHEMISTRY

COMBUSTION PRODUCTS  
0603 3301  
RT AIR POLLUTION  
ASHES  
COMBUSTIBLE FLOW  
#COMBUSTION  
COMBUSTION EFFICIENCY  
DILUENTS  
#DUST  
EXHAUST GASES  
HIGH TEMPERATURE GASES  
ODORS  
ROCKET EXHAUST  
SMOG  
SMOKE  
SOOT  
#VAPORS  
#WASTES

COMBUSTION STABILITY  
0602 2203 2701 2702 2804 2809 3301  
UF ACOUSTIC COMBUSTION  
CHUGGING  
COMBUSTION INSTABILITY  
UNSTABLE BURNING  
NT FLAME STABILITY  
BT #DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
#STABILITY

# NASA THESAURUS (ALPHABETICAL LISTING)

RT BURNING RATE  
#COMBUSTION  
COMBUSTION EFFICIENCY  
COMBUSTION PHYSICS  
COMBUSTION VIBRATION  
FUEL COMBUSTION  
MOTION STABILITY  
PRESSURE OSCILLATIONS  
PROPELLANT COMBUSTION  
THERMAL INSTABILITY  
COMBUSTION TEMPERATURE  
0603 1408 3301 3302 3304  
BT #TEMPERATURE  
RT #COMBUSTION  
COMBUSTION PHYSICS  
FLAME TEMPERATURE  
FLASH POINT  
IGNITION TEMPERATURE  
OPERATING TEMPERATURE  
SPONTANEOUS COMBUSTION  
COMBUSTION VIBRATION  
1504 2801 2808 3301  
BT #VIBRATION  
RT COMBUSTION STABILITY  
#ELASTIC WAVES  
STRUCTURAL STABILITY  
COMBUSTION WAVES  
USE FLAME PROPAGATION  
COMBUSTION WIND TUNNELS  
1110 3301  
BT #TEST FACILITIES  
WIND TUNNELS  
RT HYPERVELOCITY WIND TUNNELS  
COMBUSTORS  
USE COMBUSTION CHAMBERS  
COMET 4 AIRCRAFT  
0204  
UF DE HAVILLAND DH 106 AIRCRAFT  
DH 106 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
COMETS  
1901 3001  
NT AREND-ROLAND COMET  
GIACOBINI-ZINNER COMET  
HUMASON COMET  
MOREHOUSE COMET  
MRKOS COMET  
SCHWASSMANN-WACHMANN COMET  
BT #CELESTIAL BODIES  
RT BESSEL-BREDICHIN THEORY  
COMA  
METEOROID SHOWERS  
METEORIODS  
SOLAR SYSTEM  
COMFORT  
0408 0504 0506  
RT ACOUSTICS  
AIR CONDITIONING  
#EFFICIENCY  
ENVIRONMENTAL ENGINEERING  
GLARE  
HUMAN FACTORS ENGINEERING  
HUMIDITY  
ILLUMINATING  
PERFORMANCE  
#PHYSIOLOGICAL EFFECTS  
#PSYCHOLOGICAL EFFECTS  
SEATS  
#TEMPERATURE  
VENTILATION  
COMMAND AND CONTROL  
3406  
UF COMMAND-CONTROL  
RT AUTOMATION  
AUTONOMY  
COMMANDS  
CONTROL  
DECISION MAKING  
GROUND SUPPORT EQUIPMENT  
LOGISTICS  
#MANAGEMENT  
SURVEILLANCE  
#TARGETS  
COMMAND-CONTROL  
USE COMMAND AND CONTROL  
COMMAND GUIDANCE  
0702 0707 0708 2102 2807  
UF COMMAND SYSTEMS

BT #GUIDANCE (MOTION)  
RT COMMANDS  
GROUND SUPPORT EQUIPMENT  
INJECTION GUIDANCE  
MIDCOURSE GUIDANCE  
RENDEZVOUS GUIDANCE  
RENDEZVOUS SPACECRAFT  
SPACECRAFT GUIDANCE  
TERMINAL GUIDANCE  
COMMAND MODULES  
0702 0707 0708 2102 2807  
BT #COMPARTMENTS  
#MODULES  
#SPACECRAFT COMPONENTS  
RT APOLLO SPACECRAFT  
COMMANDS  
MARQUARDT R4D ENGINE  
SERVICE MODULES  
SPACECRAFT MODULES  
COMMAND SERVICE MODULES  
2303  
UF CSM  
BT #MODULES  
COMMAND SYSTEMS  
USE COMMAND GUIDANCE  
COMMANDO AIRCRAFT  
USE C-46 AIRCRAFT  
COMMANDS  
0702 0707 0708 2102 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AUTONOMY  
COMMAND AND CONTROL  
COMMAND GUIDANCE  
COMMAND MODULES  
DECISIONS  
COMMENCE  
3402 3406  
RT CONSUMPTION  
COSTS  
FINANCE  
#INDUSTRIES  
INVESTMENT  
LIABILITIES  
LOSSES  
MANUFACTURING  
MARKET RESEARCH  
MARKETING  
PERT  
PRODUCT DEVELOPMENT  
PROJECT MANAGEMENT  
RISK  
SUPPLYING  
#COMMERCIAL AIRCRAFT  
0204 3404  
UF AIRLINERS  
COMMERCIAL AVIATION  
NT A-300 AIRCRAFT  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 727 AIRCRAFT  
BOEING 733 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 747 AIRCRAFT  
BOEING 2707 AIRCRAFT  
COMET 4 AIRCRAFT  
CV-340 AIRCRAFT  
CV-440 AIRCRAFT  
CV-880 AIRCRAFT  
CV-990 AIRCRAFT  
DC 10 AIRCRAFT  
DH 121 AIRCRAFT  
ELECTRA AIRCRAFT  
ER-134 AIRCRAFT  
EUROPEAN AIRBUS  
HE-211 AIRCRAFT  
IL-62 AIRCRAFT  
JETSTREAM AIRCRAFT  
L-1011 AIRCRAFT  
L-1649 AIRCRAFT  
LEAR JET AIRCRAFT  
SUPERSONIC COMMERCIAL AIR TRANSPORT  
TU-104 AIRCRAFT  
TU-124 AIRCRAFT  
TU-134 AIRCRAFT  
TU-144 AIRCRAFT  
VC-10 AIRCRAFT  
RT ACCORDION PROJECT  
AIRCRAFT  
AIRLINE OPERATIONS  
CARGO AIRCRAFT

## COMMUNICATION CABLES

CIVIL AVIATION  
GENERAL AVIATION AIRCRAFT  
GROUND EFFECT MACHINES  
#JET AIRCRAFT  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SUPERSONIC TRANSPORTS  
#TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT  
COMMERCIAL AVIATION  
USE CIVIL AVIATION  
#COMMERCIAL AIRCRAFT  
COMMINUTION  
1502 1507 1704  
UF ATTRITION (MATERIALS)  
NT CRUSHING  
GRINDING (COMMINUTION)  
SHREDDING  
RT ATOMIZING  
BENEFICIATION  
CHIPPING  
COLLOIDING  
CRUSHERS  
CUTTING  
DISINTEGRATION  
FLAKING  
FRAGMENTATION  
GRINDING MILLS  
METAL POWDER  
MILLING  
PARTICLE PRODUCTION  
POWDER METALLURGY  
REDUCTION  
COMMITTEE ON SPACE RESEARCH  
1106 3009 3409  
UF COSPAR (COMMITTEE)  
COMMODITIES  
3402 3404  
RT GOVERNMENT PROCUREMENT  
MARKET RESEARCH  
PROCUREMENT MANAGEMENT  
PRODUCTS  
COMMUNES  
3402 3403  
RT CITIES  
SOCIOLOGY  
#COMMUNICATING  
0404 0702 0705 0707 3401 3406  
UF INFORMATION TRANSFER  
NT AIRCRAFT COMMUNICATION  
CONVERSATION  
ELECTROCRUTANEOUS COMMUNICATION  
GROUND-AIR-GROUND COMMUNICATIONS  
INFORMATION DISSEMINATION  
INTERSTELLAR COMMUNICATION  
LIP READING  
POINT TO POINT COMMUNICATIONS  
UNDERGROUND COMMUNICATION  
VERBAL COMMUNICATION  
RT COLOR TELEVISION  
CROSSTALK  
#EDUCATION  
FREQUENCY ASSIGNMENT  
INFORMATION  
INFORMATION FLOW  
INFORMATION MANAGEMENT  
MORSE CODE  
STEREOTELEVISION  
SYSTEMS ENGINEERING  
TDR SATELLITES  
TECHNOLOGY TRANSFER  
#COMMUNICATION  
0404 0702 0705 0707 3401 3406  
NT INFORMATION DISSEMINATION  
UNDERWATER COMMUNICATION  
VERBAL COMMUNICATION  
RT INFORMATION  
INFORMATION FLOW  
INFORMATION MANAGEMENT  
TECHNOLOGY TRANSFER  
COMMUNICATION CABLES  
0701  
NT BEAM WAVEGUIDES  
COAXIAL CABLES  
PLASMA GUIDES  
WAVEGUIDES  
BT #TRANSMISSION LINES  
BT CABLES  
ELECTRIC WIRE  
SUBMARINE CABLES

# #COMMUNICATION EQUIPMENT

## #COMMUNICATION EQUIPMENT

0701 0702  
 NT ADVANCED VIDICON CAMERA SYSTEM (AVCS)  
 CLOSED CIRCUIT TELEVISION  
 DIGITAL SPACECRAFT TELEVISION  
 DIPLEXERS  
 INTERPHONES  
 PLAT SYSTEM  
 RADIO RECEIVERS  
 RANGER BLOCK 3 TELEVISION SYSTEM  
 SATELLITE TELEVISION  
 SPACECRAFT TELEVISION  
 SUPERHETERODYNE RECEIVERS  
 TRANSMITTER RECEIVERS  
 WHISTLER RECORDERS  
 RT ANTENNA COMPONENTS  
 BIOTELEMETRY  
 CLOSED CIRCUIT TELEVISION  
 COLOR TELEVISION  
 EDUCATIONAL TELEVISION  
 FURLABLE ANTENNAS  
 INERTIALLESS STEERABLE ANTENNAS  
 LOGARITHMIC RECEIVERS  
 ORBITING DIPOLES  
 P.A.C.M. TELEMETRY  
 PLAT SYSTEM  
 PULSE FREQUENCY MODULATION  
 PULSE FREQUENCY MODULATION  
 TELEMETRY  
 RADIO COMMUNICATION  
 #RADIO EQUIPMENT  
 RADIO RELAY SYSTEMS  
 RADIO TELEGRAPHY  
 RADIO TELEMETRY  
 SATELLITE TELEVISION  
 SPACECRAFT TELEVISION  
 SPHERICAL ANTENNAS  
 TELEMETRY  
 TELEPHONY  
 TELEPHOTOMETRY  
 TELEVISION SYSTEMS  
 UNIFIED S BAND  
 COMMUNICATION SATELLITES  
 0702 0706 3107  
 NT EARLY BIRD SATELLITES  
 INTELSAT SATELLITES  
 LOW FREQUENCY TRANSIONOSPHERIC SATELLITES  
 MOLNIYA SATELLITES  
 RELAY SATELLITES  
 SYNCOM 1 SATELLITE  
 SYNCOM 2 SATELLITE  
 SYNCOM 3 SATELLITE  
 SYNCOM SATELLITES  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT ADVENT PROJECT  
 APPLICATIONS TECHNOLOGY SATELLITES  
 COMSAT PROGRAM  
 DEFENSE COMMUNICATIONS SATELLITE SYSTEM  
 ECHO PROJECT  
 GEOPHYSICAL SATELLITES  
 GROUND-AIR-GROUND COMMUNICATIONS  
 PASSIVE SATELLITES  
 RADIO RELAY SYSTEMS  
 SATELLITE NETWORKS  
 SKYNET SATELLITES  
 SPACE COMMUNICATION  
 SYNCHRONOUS COMMUNICATIONS  
 SATELLITE PROJ  
 SYNCHRONOUS METEOROLOGICAL SATELLITE  
 SYNCHRONOUS SATELLITES  
 #TELECOMMUNICATION  
 TELSTAR PROJECT  
 #UNMANNED SPACECRAFT  
 WIRELESS COMMUNICATIONS  
 COMMUNICATION SYSTEMS  
 USE #TELECOMMUNICATION  
 #COMMUNICATION THEORY  
 0702 0703  
 UF STATISTICAL COMMUNICATION THEORY  
 NT SYLLABLES  
 WORDS (LANGUAGE)  
 RT CROSS COUPLING  
 CYBERNETICS  
 DATA TRANSMISSION  
 INFORMATION THEORY  
 INTELLIGIBILITY

#LANGUAGES  
 LATTICES (MATHEMATICS)  
 MESSAGES  
 NETWORK SYNTHESIS  
 RANDOM NOISE  
 RANDOM PROCESSES  
 REDUNDANCY  
 SEMANTICS  
 SENTENCES  
 SIGNAL TO NOISE RATIOS  
 SWITCHING THEORY  
 THEORIES  
 #COMMUNITIES  
 0410 3402  
 NT INHABITANTS  
 MOUNTAIN INHABITANTS  
 RT CITIES  
 MINORITIES  
 NATIONS  
 POLICE  
 POLITICS  
 REGIMES  
 SOCIOLOGY  
 UNITED NATIONS  
 URBAN DEVELOPMENT  
 URBAN PLANNING  
 URBAN RESEARCH  
 COMMUTATION  
 0702 0703 0802 0904 0905 1902  
 RT COMMUTATORS  
 INTERPOLATION  
 SWITCHING THEORY  
 COMMUTATORS  
 0904 1504 1902  
 NT DECOMMUTATORS  
 RT ARMATURES  
 COMMUTATION  
 DISTRIBUTORS  
 ELECTRIC CONTACTS  
 ELECTRIC MOTORS  
 ROTATING ELECTRICAL MACHINES  
 ROTATING GENERATORS  
 COMPACTING  
 1504 3407  
 RT AGGLOMERATION  
 COLD PRESSING  
 DENSIFICATION  
 HOT PRESSING  
 POWDER METALLURGY  
 PRESSES  
 PRESSING  
 PRESSING (FORMING)  
 #VIBRATION  
 COMPACTNESS  
 USE VOID RATIO  
 COMPANION STARS  
 1901 3001  
 BT BINARY STARS  
 STARS  
 RT PARALLAX  
 STELLAR MOTIONS  
 VARIABLE STARS  
 VISUAL OBSERVATION  
 COMPARTOR CIRCUITS  
 0902  
 BT #CIRCUITS  
 RT CLIPPER CIRCUITS  
 DELAY CIRCUITS  
 #DISCRIMINATION  
 TIME DISCRIMINATION  
 COMPARATORS  
 0701 0801 0902 1406  
 BT #MEASURING INSTRUMENTS  
 RT DISCRIMINATORS  
 ERROR SIGNALS  
 HARMONIC GENERATORS  
 MONOCHROMATORS  
 REFLECTOMETERS  
 COMPARISON  
 3407  
 RT COST ANALYSIS  
 ECONOMIC ANALYSIS  
 ESTIMATES  
 EVALUATION  
 EXAMINATION  
 MATCHING  
 PATTERN REGISTRATION  
 RANKING  
 COMPARTMENTATION  
 USE #COMPARTMENTS  
 #COMPARTMENTS  
 0202 0404 0405 1102 1106 3110 3203

# NASA THESAURUS (ALPHABETICAL LISTING)

UF COMPARTMENTATION  
 NT AIR LOCKS  
 AIRCRAFT COMPARTMENTS  
 ANECHOIC CHAMBERS  
 COMMAND MODULES  
 PRESSURE CHAMBERS  
 PRESSURIZED CABINS  
 SPACECRAFT CABINS  
 TEST CHAMBERS  
 VACUUM CHAMBERS  
 RT BAYS (STRUCTURAL UNITS)  
 CELLS  
 ENCLOSURES  
 #MODULES  
 ROOMS  
 SPACECRAFT MODULES  
 COMPASS (PROGRAMMING LANGUAGE)  
 0802  
 BT ASSEMBLY LANGUAGE  
 #LANGUAGES  
 MACHINE ORIENTED LANGUAGES  
 RT COMPILERS  
 COMPUTER PROGRAMMING  
 COMPASSES  
 1307 1406 2104  
 NT GYROCOMPASSES  
 MAGNETIC COMPASSES  
 SOLAR COMPASSES  
 BT #AIRCRAFT INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 RT BEACONS  
 BUOYS  
 #FLIGHT INSTRUMENTS  
 RADAR BEACONS  
 RADIO DIRECTION FINDERS  
 TRANSITS  
 COMPATIBILITY  
 0408 3408 0602 0603 0904  
 RT ACCEPTABILITY  
 AFFINITY  
 CONVENTIONS  
 PERMISSIVITY  
 #STABILITY  
 SUITABILITY  
 VERSATILITY  
 COMPENSATION  
 0404 0410 0702 1001 2310 3402 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ALLOWANCES  
 ERRORS  
 IMAGE MOTION COMPENSATION  
 INSTRUMENT COMPENSATION  
 TEMPERATURE COMPENSATION  
 TRANSIENT RESPONSE  
 COMPENSATORS  
 0701 0904 0905 2310  
 UF SHIMS  
 RT BALANCE  
 BIAS  
 ERROR SIGNALS  
 #FEEDBACK  
 VIDEO EQUIPMENT  
 COMPENSATORY TRACKING  
 0709  
 BT #TRACKING (POSITION)  
 RT INFRARED TRACKING  
 OPTICAL TRACKING  
 RADAR TRACKING  
 COMPETITION  
 0404 0408 0410 3402  
 RT HUMAN REACTIONS  
 COMPILATION (COMPUTERS)  
 USE COMPILERS  
 COMPILER PROGRAMS  
 USE COMPILERS  
 COMPILERS  
 0802  
 (PROGRAM-MAKING ROUTINES FOR DIGITAL  
 COMPUTERS)  
 UF COMPILATION (COMPUTERS)  
 COMPILER PROGRAMS  
 BT #COMPUTER PROGRAMS  
 RT ASSEMBLER ROUTINES  
 AUTOCODERS  
 COLLATING  
 COMPASS (PROGRAMMING LANGUAGE)  
 COMPUTER SYSTEMS PROGRAMS  
 FORTRAN



# NASA THESAURUS (ALPHABETICAL LISTING)

OPERATING SYSTEMS (COMPUTERS)  
 PL/1  
 PROGRAMMED INSTRUCTION  
 SUBROUTINES

COMPLEMENT  
 0802 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT COMPLEMENT (BIOLOGY)  
 COMPLEMENTS (MATHEMATICS)  
 #PERSONNEL

COMPLEMENT (BIOLOGY)  
 0404  
 RT COMPLEMENT  
 HEMOLYSIS

COMPLEMENTS (MATHEMATICS)  
 1902  
 RT ANGLES (GEOMETRY)  
 COMPLEMENT  
 LOGIC

COMPLETENESS  
 1902  
 RT ACHIEVEMENT  
 INTEGRITY

COMPLEX NUMBERS  
 1902  
 RT COMPLEX VARIABLES  
 #GEOMETRY  
 INTEGERS  
 NUMBERS  
 REAL NUMBERS

COMPLEX SYSTEMS  
 0503 1003 1905 3203  
 RT RELIABILITY ENGINEERING  
 SYSTEMS  
 SYSTEMS ANALYSIS

COMPLEX VARIABLES  
 1902 1903  
 NT AIRY FUNCTION  
 ANALYTIC FUNCTIONS  
 BESSEL FUNCTIONS  
 CAUCHY INTEGRAL FORMULA  
 CONFORMAL MAPPING  
 CONJUGATES  
 ELLIPTIC FUNCTIONS  
 ENTIRE FUNCTIONS  
 EXPONENTIAL FUNCTIONS  
 GAMMA FUNCTION  
 HANKEL FUNCTIONS  
 HARMONIC FUNCTIONS  
 HYPERBOLIC FUNCTIONS  
 HYPERGEOMETRIC FUNCTIONS  
 LAGUERRE FUNCTIONS  
 LEGENDRE FUNCTIONS  
 LIOUVILLE THEOREM  
 LOGARITHMS  
 MATHIEU FUNCTION  
 MEROMORPHIC FUNCTIONS  
 NONHOLONOMIC EQUATIONS  
 ORTHOGONAL FUNCTIONS  
 RATIONAL FUNCTIONS  
 SCHWARZ-CHRISTOPFEL TRANSFORMATION  
 SINGULARITY (MATHEMATICS)  
 SPHERICAL HARMONICS

BT #ANALYSIS (MATHEMATICS)  
 RT #ANALYSIS (MATHEMATICS)  
 APERIODIC FUNCTIONS  
 COMPLEX NUMBERS  
 COMPLEXITY  
 DEPENDENT VARIABLES  
 EULER-CAUCHY EQUATIONS  
 FUNCTIONAL ANALYSIS  
 JOUKOWSKI TRANSFORMATION  
 MAXIMUM PRINCIPLE  
 REAL VARIABLES  
 SCHAUDER FIXPOINT THEOREM  
 STABILITY DERIVATIVES  
 THEODORSEN TRANSFORMATION  
 UNIQUENESS THEOREM  
 VARIABLE

COMPLEXITY  
 3408  
 UP COMPLICATION  
 NT TASK COMPLEXITY  
 RT COMPLEX VARIABLES  
 #FEEDBACK  
 PERFORMANCE  
 STATISTICAL DISTRIBUTIONS

COMPLIANCE (ELASTICITY)  
 USE MODULUS OF ELASTICITY

COMPLICATION  
 USE COMPLEXITY

COMPONENT RELIABILITY  
 0202 0903 1504 1505 2806  
 BT RELIABILITY  
 RT AIRCRAFT RELIABILITY  
 CIRCUIT RELIABILITY  
 CUMULATIVE DAMAGE  
 QUALITY CONTROL  
 SPACECRAFT RELIABILITY  
 STRUCTURAL RELIABILITY

COMPONENTS  
 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

UP PARTS  
 RT ACCESSORIES  
 ANTENNA COMPONENTS  
 ASSEMBLIES  
 ENGINE PARTS  
 FRACTIONS  
 INGREDIENTS  
 #MODULES  
 REDUNDANT COMPONENTS  
 SEGMENTS  
 #SPACECRAFT COMPONENTS  
 SPARE PARTS  
 #STRUCTURAL MEMBERS  
 SUBASSEMBLIES

COMPOSITE FUNCTIONS  
 1902 1903  
 BT #ANALYSIS (MATHEMATICS)  
 #FUNCTIONS (MATHEMATICS)  
 REAL VARIABLES

#COMPOSITE MATERIALS  
 1507 1704 1801 1805 1809  
 UP COMPOSITES  
 PYROGRAPHALLOY  
 REINFORCED MATERIALS

NT BORAL  
 CERMETS  
 COMPOSITE PROPELLANTS  
 LAMINATES  
 METAL MATRIX COMPOSITES  
 MICARTA  
 PLYWOOD  
 REINFORCED PLASTICS  
 THREE DIMENSIONAL COMPOSITES

RT AIRFRAME MATERIALS  
 Bimetals  
 CARBON FIBERS  
 CLADDING  
 #COATINGS  
 #COMPOSITE STRUCTURES  
 COMPOSITE WRAPPING  
 CONSTRUCTION MATERIALS  
 #FIBERS  
 INSULATION  
 LOW DENSITY RESEARCH  
 MATERIALS  
 MATRICES  
 #METALS  
 #MIXTURES  
 MODULAR RATIOS  
 MULTILAYER INSULATION  
 POWDER METALLURGY  
 PREFORMS  
 REINFORCEMENT (STRUCTURES)  
 REINFORCING FIBERS  
 RIGID STRUCTURES  
 ROVINGS  
 SANDWICH STRUCTURES  
 SOLID SUSPENSIONS  
 SPIRAL WRAPPING  
 THERMOSETTING RESINS

COMPOSITE PROPELLANTS  
 2702 2809  
 BT #COMPOSITE MATERIALS  
 #PROPELLANTS  
 SOLID PROPELLANTS  
 CASE BONDED PROPELLANTS  
 DOUBLE BASE PROPELLANTS  
 DOUBLE BASE ROCKET PROPELLANTS  
 EXPLOSIVES  
 PLASTIC PROPELLANTS  
 PLASTISOLS  
 POLYSULFIDES  
 POLYURETHANE RESINS  
 PROPELLANT ADDITIVES  
 PROPELLANT BINDERS  
 SOLID ROCKET PROPELLANTS

## COMPOUNDS

#COMPOSITE STRUCTURES  
 1507 1704 1801 1805 1809 3202  
 NT BORAL  
 LAMINATES  
 PLYWOOD

RT #COMPOSITE MATERIALS  
 HONEYCOMB CORES  
 HONEYCOMB STRUCTURES  
 STEEL STRUCTURES  
 STRUCTURES

COMPOSITE WRAPPING  
 1507 3202  
 RT #COMPOSITE MATERIALS  
 FILAMENT WINDING  
 ISOTENSOID STRUCTURES  
 SPIRAL WRAPPING  
 WRAP

COMPOSITES  
 USE #COMPOSITE MATERIALS  
 COMPOSITION  
 0601 1704 1805 3406 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT #COMPOSITION (PROPERTY)  
 CONTENT  
 FORMULATIONS  
 INGREDIENTS  
 STOICHIOMETRY

#COMPOSITION (PROPERTY)  
 3408  
 NT ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC MOISTURE  
 ATOM CONCENTRATION  
 BODY COMPOSITION (BIOLOGY)  
 CARBON DIOXIDE CONCENTRATION  
 CHEMICAL COMPOSITION  
 CONCENTRATION (COMPOSITION)  
 GAS COMPOSITION  
 IONOSPHERIC COMPOSITION  
 LUNAR COMPOSITION  
 METEORITIC COMPOSITION  
 METEOROID CONCENTRATION  
 MOISTURE CONTENT  
 PLANETARY COMPOSITION  
 PLASMA COMPOSITION

RT COMPOSITION  
 #GRADIENTS  
 HENRY LAW  
 LUMPING  
 #MIXTURES  
 RAOULT LAW  
 SOLUTIONS  
 STOICHIOMETRY

COMPOUND A  
 0603 1804  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
 #HALOGEN COMPOUNDS

COMPOUND HELICOPTERS  
 0206  
 BT HELICOPTERS  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT

RT AERONAUTICAL ENGINEERING  
 AIR TRANSPORTATION  
 AIRCRAFT  
 AIRCRAFT CONFIGURATIONS  
 AIRCRAFT DESIGN  
 HELICOPTER DESIGN  
 SHORT TAKEOFF AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT

COMPOUNDING  
 1504 3407  
 UP MILLING (MIXING)  
 BT MIXING  
 RT COLLOIDING  
 DISSOLVING  
 GRINDING (COMMINUTION)  
 HOMOGENIZING  
 MILLING

COMPOUNDS  
 0603 1804 1808  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT NEPTUNIUM COMPOUNDS  
 ORGANIC SULFUR COMPOUNDS  
 PALLADIUM COMPOUNDS  
 POTTING COMPOUNDS  
 RUTHENIUM COMPOUNDS  
 THALLIUM COMPOUNDS

## COMPRESSED AIR

## COMPRESSED AIR

1202 1203

BT AIR

BT COMPRESSED GAS

COMPRESSORS

DRILLS

ENERGY STORAGE

MAN OPERATED PROPULSION SYSTEMS

OXYGEN SUPPLY EQUIPMENT

PNEUMATIC EQUIPMENT

PUMPING

## COMPRESSED GAS

1202 1203

NT HIGH PRESSURE OXYGEN

BT #GASES

RT COMPRESSED AIR

COMPRESSORS

GAS PRESSURE

PNEUMATIC CONTROL

## COMPRESSIBILITY

1503 3203 3408

BT #MECHANICAL PROPERTIES

RT BULK MODULUS

COMPRESSIBILITY EFFECTS

COMPRESSIBLE FLOW

COMPRESSIVE STRENGTH

DENSITY (MASS/VOLUME)

EQUATIONS OF STATE

GRUNEISEN CONSTANT

HYDROELASTICITY

INCOMPRESSIBILITY

METAL POWDER

POROSITY

POWDER (PARTICLES)

## COMPRESSIBILITY EFFECTS

0101 1202 1704 2603 3203

RT BUFFETING

COMPRESSIBILITY

COMPRESSIBLE FLOW

EFFECTS

FLUTTER

HEAT TRANSFER

OSCILLATING FLOW

PRESSURE EFFECTS

RELAXATION (PHYSIOLOGY)

SECONDARY FLOW

SUPERSONIC FLOW

TRANSONIC FLOW

## COMPRESSIBLE BOUNDARY LAYER

0101 1202 1203

BT BOUNDARY LAYERS

RT LAMINAR BOUNDARY LAYER

THREE DIMENSIONAL BOUNDARY LAYER

TURBULENT BOUNDARY LAYER

## COMPRESSIBLE FLOW

0101 1202 1203

BT #FLUID FLOW

RT AERODYNAMICS

AIR FLOW

CARTAN SPACE

COMPRESSIBILITY

COMPRESSIBILITY EFFECTS

COMPRESSIBLE FLUIDS

CROCCO METHOD

GAS FLOW

HUGONIOT EQUATION OF STATE

HYPERSONIC FLOW

INCOMPRESSIBLE FLOW

MAGNETOHYDRODYNAMIC FLOW

NEWTON PRESSURE LAW

STAGNATION FLOW

STAGNATION PRESSURE

STAGNATION TEMPERATURE

SUBSONIC FLOW

SUPERSONIC FLOW

TRANSONIC FLOW

## COMPRESSIBLE FLUIDS

1202 1203

RT AERODYNAMIC HEATING

COMPRESSIBLE FLOW

CROCCO METHOD

FLUID POWER

FLUIDS

HYDROELASTICITY

IDEAL FLUIDS

INCOMPRESSIBLE FLUIDS

MAXWELL FLUIDS

METHOD OF CHARACTERISTICS

P WAVES

SUPERFLUIDITY

## COMPRESSING

1504 1505 1507 3407 3408

UP

RECOMPRESSION

SQUEEZING

THERMOCOMPRESSION

BT

ADIABATIC CONDITIONS

ANVILS

AXIAL COMPRESSION LOADS

BLOWING

COMPRESSORS

CONCENTRATING

DENSIFICATION

INTERNAL COMPRESSION INLETS

#MECHANICAL PROPERTIES

METAL POWDER

PISTON THEORY

PRESSING

#PRESSURE

PRESSURE REDUCTION

PULSE COMPRESSION

PUMPING

RAREFACTION

SUPERCHARGERS

COMPRESSION BUCKLING

USE BUCKLING

COMPRESSION LOADS

3203

NT AXIAL COMPRESSION LOADS

IMPACT LOADS

BT

#LOADS (FORCES)

RT

AERODYNAMIC LOADS

AXIAL LOADS

BUCKLING

COMPRESSIVE STRENGTH

DYNAMIC LOADS

EDGE LOADING

#MECHANICAL PROPERTIES

SHOCK LOADS

STATIC LOADS

THRUST LOADS

COMPRESSION TESTERS

USE COMPRESSION TESTS

COMPRESSION TESTS

3203 3404

UP

COMPRESSION TESTERS

METEORITE COMPRESSION TESTS

RT

CREEP TESTS

DESTRUCTIVE TESTS

HARDNESS TESTS

IMPACT TESTS

LOAD TESTS

MATERIALS TESTS

STATIC TESTS

TESTS

COMPRESSION WAVES

0710 2308 3203

BT

#ELASTIC WAVES

RT

P WAVES

COMPRESSIVE STRENGTH

3408

BT

#MECHANICAL PROPERTIES

RT

COMPRESSIBILITY

COMPRESSION LOADS

DUCTILITY

ELASTIC PROPERTIES

FIBER STRENGTH

HIGH STRENGTH

POISSON RATIO

RESILIENCE

SHEAR STRENGTH

TOUGHNESS

COMPRESSOR BLADES

0104 1504

BT

TURBOMACHINE BLADES

RT

BLADES

CENTRIFUGAL COMPRESSORS

COMPRESSOR ROTORS

ROTATING STALLS

ROTOR BLADES (TURBOMACHINERY)

STATOR BLADES

TURBINE BLADES

TURBOCOMPRESSORS

#VANES

COMPRESSOR EFFICIENCY

0202 0303 1202 1504 2808 3304

BT

#EFFICIENCY

RT

COMBUSTION EFFICIENCY

POWER EFFICIENCY

THERMODYNAMIC EFFICIENCY

COMPRESSOR ROTORS

0104 1504

BT

#ROTATING BODIES

ROTORS

RT

CENTRIFUGAL COMPRESSORS

## NASA THESAURUS (ALPHABETICAL LISTING)

COMPRESSOR BLADES

COMPRESSORS

FANS

IMPELLERS

ROTOR BLADES (TURBOMACHINERY)

TURBINE WHEELS

TURBOCOMPRESSORS

## COMPRESSORS

0303 1203 1504 2805 3404

(EXCLUDES DATA COMPRESSORS)

NT CENTRIFUGAL COMPRESSORS

SUPERCHARGERS

SUPERSONIC COMPRESSORS

TRANSONIC COMPRESSORS

TURBOCOMPRESSORS

BT

AIR CONDITIONING EQUIPMENT

BLOWERS

COMPRESSED AIR

COMPRESSED GAS

COMPRESSING

COMPRESSOR ROTORS

CONDENSERS (LIQUIFIERS)

COOLERS

FANS

REFRIGERATING MACHINERY

STATORS

#TURBOMACHINERY

VACUUM PUMPS

VANELESS DIFFUSERS

## COMPTON EFFECT

0710 2306 2310 2402 2403

BT #SCATTERING

RT

COHERENT SCATTERING

INELASTIC SCATTERING

#NUCLEAR REACTIONS

PHOTOELECTRICITY

## #COMPUTATION

0802 1902

UP

CALCULATION

NT

MINIMUM VARIANCE ORBIT

DETERMINATION

ORBIT CALCULATION

RT

ADDITION

APPLICATIONS OF MATHEMATICS

ARITHMETIC

CALCULATORS

COMPUTERS

#DATA PROCESSING

DATA REDUCTION

DIVIDING (MATHEMATICS)

FORMULAS

INTERPOLATION

LINEAR PREDICTION

MULTIPLICATION

SUBTRACTION

SUMS

## #COMPUTER COMPONENTS

0701 0801

NT

COMPUTER GRAPHICS

RT

ADDING CIRCUITS

ARITHMETIC AND LOGIC UNITS

BINARY TO DECIMAL CONVERTERS

COMPUTER DESIGN

COMPUTERS

CONSOLES

CONTROL UNITS (COMPUTERS)

COUNTERS

DECIMAL TO BINARY CONVERTERS

LOGICAL ELEMENTS

REMOTE CONSOLES

SHIFT REGISTERS

## COMPUTER DESIGN

3404

(DESIGN OF COMPUTERS--EXCLUDES

COMPUTERIZED DESIGN AND SYSTEMS

ENGINEERING)

RT

#COMPUTER COMPONENTS

COMPUTERS

DESIGN

FLUID LOGIC

LOGIC DESIGN

PRODUCT DEVELOPMENT

## COMPUTER GRAPHICS

0801 0802

NT

DATA PROCESSING TERMINALS

PLOTTERS

BT

#COMPUTER COMPONENTS

RT

COMPUTERIZED DESIGN

COMPUTERS

#DISPLAY DEVICES

REMOTE CONSOLES

# NASA THESAURUS (ALPHABETICAL LISTING)

## COMPUTERS

COMPUTER METHODS	BUFFER STORAGE	ANALOG COMPUTERS
USE #COMPUTER PROGRAMS	CORE STORAGE	BURROUGHS 220 COMPUTER
COMPUTER PROGRAMMING	CRYOGENIC COMPUTER STORAGE	CDC 160-A COMPUTER
0802	DELAY LINES (COMPUTER STORAGE)	CDC 1604 COMPUTER
UF LEGENDRE CODE	FLIP-FLOPS	CDC 3100 COMPUTER
NT ASSEMBLER ROUTINES	MAGNETIC CORES	CDC 3200 COMPUTER
LANGUAGE PROGRAMMING	MAGNETIC DISKS	CDC 3600 COMPUTER
MICROPROGRAMMING	MAGNETIC DRUMS	CDC 3800 COMPUTER
MULTIPROGRAMMING	MAGNETIC TAPES	CDC 6600 COMPUTER
ON-LINE PROGRAMMING	RANDOM ACCESS MEMORY	CDC 8090 COMPUTER
PARALLEL PROGRAMMING	REGISTERS (COMPUTERS)	CDC COMPUTERS
RT ADDRESSING	SHIFT REGISTERS	CDC 6000 SERIES COMPUTERS
ALGOL	ACOUSTIC DELAY LINES	COUNTING RATE COMPUTERS
ALGORITHMS	CENTRAL PROCESSING UNITS	DIGITAL COMPUTERS
ASSEMBLY LANGUAGE	CHANNELS	PERRANTI MERCURY COMPUTER
AUTOCODERS	CRYOSAR	GENERAL ELECTRIC COMPUTERS
BATCH PROCESSING	MAGNETIC STORAGE	HONEYWELL ADEPT. COMPUTER
BCH CODES	PARAMETERONS	HONEYWELL DDP 116 COMPUTER
CODING	PUNCHED CARDS	HYBRID COMPUTERS
COMPASS (PROGRAMMING LANGUAGE)	PUNCHED TAPES	IBM 360 COMPUTER
#COMPUTER PROGRAMS	STORAGE	IBM 650 COMPUTER
COMPUTER SYSTEMS PROGRAMS	THIN FILMS	IBM 704 COMPUTER
CONTEXT FREE LANGUAGES	COMPUTER SYSTEMS PROGRAMS	IBM 709 COMPUTER
DIGITAL TECHNIQUES	0802	IBM 1130 COMPUTER
FLOW CHARTS	UF SOFTWARE (COMPUTERS)	IBM 1401 COMPUTER
FORMALISM	NT ASSEMBLER ROUTINES	IBM 1410 COMPUTER
FORMAT	INPUT/OUTPUT ROUTINES	IBM 1620 COMPUTER
FORTRAN	OPERATING SYSTEMS (COMPUTERS)	IBM 2250 COMPUTER
HEURISTIC METHODS	SUBROUTINE LIBRARIES (COMPUTERS)	IBM 7030 COMPUTER
KINOFORM	BT #COMPUTER PROGRAMS	IBM 7040 COMPUTER
LINEAR PROGRAMMING	RT ALGORITHMS	IBM 7044 COMPUTER
LOGIC DESIGN	ASSEMBLY LANGUAGE	IBM 7070 COMPUTER
MACHINE-INDEPENDENT PROGRAMS	AUTOCODERS	IBM 7074 COMPUTER
MACHINE ORIENTED LANGUAGES	COMPIERS	IBM 7090 COMPUTER
MAP (PROGRAMMING LANGUAGE)	COMPUTER PROGRAMMING	IBM 7094 COMPUTER
MULTIPROGRAMMING	COMPUTERS	IBM COMPUTERS
NUMERICAL ANALYSIS	#DATA PROCESSING	ILLIAC 4 COMPUTER
PL/1	DIGITAL COMPUTERS	ILLIAC COMPUTERS
PROGRAMMED INSTRUCTION	EDITING ROUTINES (COMPUTERS)	INTERCOM 1000 COMPUTER
PROGRAMMERS	ERROR DETECTION CODES	MINOS COMPUTER
PROGRAMMING	REPORT GENERATORS	ORDVAC COMPUTER
REAL TIME OPERATION	ROUTINES	PDP 7 COMPUTER
RESPONSE TIME (COMPUTERS)	SYSTEMS ANALYSIS	PDP 8 COMPUTER
RUN TIME (COMPUTERS)	COMPUTER TECHNIQUES	PDP 9 COMPUTER
SEQUENTIAL CONTROL	0802 3406	PDP 10 COMPUTER
SYSTEMS ANALYSIS	RT #COMPUTER PROGRAMS	PDP COMPUTERS
THEOREM PROVING	COMPUTERS	PEGASUS COMPUTER
TIME SHARING	MANAGEMENT INFORMATION SYSTEMS	PHILCO 2000 COMPUTER
#COMPUTER PROGRAMS	MANAGEMENT METHODS	RCA COMPUTERS
0802	MANAGEMENT SYSTEMS	RCA-110 COMPUTERS
UF COMPUTER METHODS	COMPUTERIZED DESIGN	RCA SPECTRA 70 COMPUTER
SOFTWARE (COMPUTERS)	0802	SDS 930 COMPUTER
ASSEMBLER ROUTINES	RT AIRCRAFT DESIGN	SDS 9300 COMPUTER
COMPIERS	AMPLIFIER DESIGN	SDS 900 SERIES COMPUTERS
COMPUTER SYSTEMS PROGRAMS	COMPUTER GRAPHICS	SEQUENTIAL COMPUTERS
EDITING ROUTINES (COMPUTERS)	DESIGN	SIEMENS 2002 COMPUTER
INPUT/OUTPUT ROUTINES	DRAFTING MACHINES	SITE DATA PROCESSORS
MACHINE-INDEPENDENT PROGRAMS	ENGINE DESIGN	SOLOMON COMPUTERS
MERGING ROUTINES	HELICOPTER DESIGN	UNIVAC 80 COMPUTER
MULTIPLE OUTPUT PROGRAMS	LENS DESIGN	UNIVAC 418 COMPUTER
OBJECT PROGRAMS	LOFTING	UNIVAC 490 COMPUTER
OPERATING SYSTEMS (COMPUTERS)	LOGIC DESIGN	UNIVAC 1005 COMPUTER
SUBROUTINE LIBRARIES (COMPUTERS)	MISSILE DESIGN	UNIVAC 1105 COMPUTER
SUBROUTINES	REACTOR DESIGN	UNIVAC 1107 COMPUTER
RT ALGORITHMS	SATELLITE DESIGN	UNIVAC 1108 COMPUTER
APPLICATIONS PROGRAMS (COMPUTERS)	SPACECRAFT DESIGN	UNIVAC 1824 COMPUTER
ASSEMBLY LANGUAGE	STRUCTURAL DESIGN	UNIVAC COMPUTERS
BATCH PROCESSING	COMPUTERIZED SIMULATION	UNIVAC LARC COMPUTER
CODING	0804	BT #DATA PROCESSING EQUIPMENT
COMPUTER PROGRAMMING	UF ARIP (IMPACT PREDICTION)	RT ARITHMETIC AND LOGIC UNITS
COMPUTER TECHNIQUES	AUTOMATIC ROCKET IMPACT PREDICTORS	ARTIFICIAL INTELLIGENCE
COMPUTERS	COMPUTER SIMULATION	AUTOMATA THEORY
#DATA PROCESSING	IP (IMPACT PREDICTION)	AUTOMATION
DIGITAL COMPUTERS	NT ANALOG SIMULATION	CALCULATORS
ERROR DETECTION CODES	DIGITAL SIMULATION	CENTRAL PROCESSING UNITS
FLOATING POINT ARITHMETIC	BT #SIMULATION	#COMPUTATION
INSTRUCTION SETS (COMPUTERS)	RT ALGORITHMS	#COMPUTER COMPONENTS
MACHINE TRANSLATION	ALTITUDE SIMULATION	COMPUTER DESIGN
NUMERICAL CONTROL	COMPUTERS	COMPUTER GRAPHICS
PROGRAMMED INSTRUCTION	CONTROL SIMULATION	#COMPUTER PROGRAMS
#PROGRAMS	FLIGHT SIMULATION	COMPUTER SYSTEMS PROGRAMS
REPORT GENERATORS	HYDRAULIC ANALOGIES	COMPUTER TECHNIQUES
ROUTINES	LANDING SIMULATION	COMPUTERIZED SIMULATION
SOURCE PROGRAMS	MATHEMATICAL MODELS	CONTROL DATA (COMPUTERS)
TRANSLATORS	MISSILE SIMULATORS	CONTROL UNITS (COMPUTERS)
COMPUTER SIMULATION	NUMERICAL WEATHER FORECASTING	CYBERNETICS
USE COMPUTERIZED SIMULATION	OPERATIONS RESEARCH	DATA CONVERTERS
#COMPUTER STORAGE DEVICES	TARGET SIMULATORS	#DATA PROCESSING
0801	COMPUTERS	DIGITAL TO VOICE TRANSLATORS
UF MACHINE STORAGE	0801 0802 0905 2102	FLOATING POINT ARITHMETIC
MEMORY STORAGE UNITS	UF PROCESSORS (COMPUTERS)	HARDWARE
NT ACCUMULATORS (COMPUTERS)	NT AIRBORNE/SPACEBORNE COMPUTERS	INFORMATION RETRIEVAL

# CONSAT PROGRAM

INFORMATION THEORY  
LOGIC CIRCUITS  
MACHINE-INDEPENDENT PROGRAMS  
MACHINERY  
PRINTERS (DATA PROCESSING)  
REAL TIME OPERATION  
RUN TIME (COMPUTERS)  
#TELECOMMUNICATION  
VOCODERS

## CONSAT PROGRAM

0706 0802 3107 3409  
BT #PROGRAMS  
RT COMMUNICATION SATELLITES  
EARLY BIRD SATELLITES  
TELSTAR PROJECT  
TELSTAR SATELLITES

## CONCAVITY

0101 0201 1902 2311 3203 3408  
RT CONTOURS  
CONVEXITY  
FLATNESS  
SHAPES  
SURFACE GEOMETRY

## CONCENTRATING

3407 3408  
RT ACCUMULATIONS  
ADSORPTION  
AGGLOMERATION  
BENEFICIATION  
CENTRIFUGING  
CLASSIFIERS  
COAGULATION  
COALESCING  
COMPRESSING  
CONCENTRATION  
CONCENTRATORS  
CONDENSING  
CRYSTALLIZATION  
DISTILLATION  
DRYING  
ENRICHMENT  
EVAPORATION  
EXTRACTION  
FILTRATION  
FLOCCULATING  
FLOTATION  
PERCOLATION  
PRECIPITATION (CHEMISTRY)  
SEPARATION  
#SEPARATORS  
SETTLING  
#SORPTION  
STRESS CONCENTRATION  
UPGRADING  
VAPORIZING

## CONCENTRATION

3407 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CONCENTRATING  
CONCENTRATION (COMPOSITION)  
CROWDING  
FILTRATION

## CONCENTRATION (COMPOSITION)

3408  
RT ATMOSPHERIC MOISTURE  
ATOM CONCENTRATION  
CARBON DIOXIDE CONCENTRATION  
MASCONS  
METEOROID CONCENTRATION  
MOISTURE CONTENT  
BT #COMPOSITION (PROPERTY)  
RT CONCENTRATION  
DILUTION  
PARTICULATE SAMPLING  
PURITY  
QUALITY  
SAMPLING  
SATURATION  
SOLUBILITY

## CONCENTRATORS

0301 2201 3404  
RT #ACCUMULATORS  
CENTRIFUGES  
CLASSIFIERS  
CLASSIFYING  
COLUMNS (PROCESS ENGINEERING)  
CONCENTRATING  
EVAPORATORS  
FILTRATION  
FLUID FILTERS

PRECIPITATORS  
RADIATIVE HEAT TRANSFER  
#SEPARATORS  
SIZE SEPARATION  
SIZING SCREENS  
SOLAR COLLECTORS  
STILLS  
THERMAL RADIATION  
TRAPS  
WASHERS (CLEANERS)

## CONCENTRIC CYLINDERS

1902 3203  
RT CYLINDERS  
CYLINDRICAL SHELLS

## CONCENTRICITY

3408  
RT CENTERS  
CONCORDE AIRCRAFT

## CONCRETE

0204  
BT #JET AIRCRAFT  
#SUD AVIATION AIRCRAFT  
#SUPERSONIC AIRCRAFT  
SUPERSONIC TRANSPORTS  
#TRANSPORT AIRCRAFT  
TURBOFAN AIRCRAFT

## CONCRETES

1805 3202  
RT ADMIXTURES  
AGGREGATES  
CEMENTS  
CONSTRUCTION MATERIALS  
GROUT  
INSULATION  
MASONRY  
MORTARS (MATERIAL)  
PAVEMENTS

## #STRUCTURAL MEMBERS

## CONDENSATES

2003 3407  
RT CONDENSATION  
CONDENSERS (LIQUIFIERS)  
CONDENSING  
CONTRAILS  
DROP SIZE  
LIQUEFIED GASES  
PLUMES  
#VAPORS

## CONDENSATION

1703 1805 2003 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONDENSATES  
CONDENSING  
GAS-METAL INTERACTIONS  
LIQUEFACTION  
MAYER PROBLEM  
RECTIFICATION

## CONDENSATION PUMPS

1501 1504  
BT #PUMPS  
#VACUUM APPARATUS  
VACUUM PUMPS

## CONDENSATION TRAILS

USE CONTRAILS  
CONDENSER RADIATORS  
USE CONDENSERS (LIQUIFIERS)  
HEAT RADIATORS

## CONDENSERS

0903 0904 1504 3303 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CAPACITORS  
CONDENSERS (LIQUIFIERS)  
JET CONDENSERS  
PHOTOGRAPHIC RECTIFIERS

## CONDENSERS (LIQUIFIERS)

0303 3303  
UP CONDENSER RADIATORS  
RT ABSORBERS (EQUIPMENT)  
AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
COLD TRAPS  
COLUMNS (PROCESS ENGINEERING)  
COMPRESSORS  
CONDENSATES  
CONDENSERS  
CONDENSING  
COOLING PINS  
COOLING SYSTEMS  
DISTILLATION EQUIPMENT

# NASA THESAURUS (ALPHABETICAL LISTING)

DRYING APPARATUS  
EVAPORATORS  
EXHAUST SYSTEMS  
FILM CONDENSATION  
HEAT EXCHANGERS  
HEAT PUMPS  
LIQUEFIED GASES  
REFRIGERATING MACHINERY  
#SEPARATORS  
SPACECRAFT RADIATORS  
VAPORIZERS

## CONDENSING

3303 3407  
UP GAS LIQUEFACTION  
RT FILM CONDENSATION  
RT CLOUD PHYSICS  
CONCENTRATING  
CONDENSATES  
CONDENSATION  
CONDENSERS (LIQUIFIERS)

#COOLING  
DEHUMIDIFICATION  
DISTILLATION  
DROP SIZE  
DROPS (LIQUIDS)  
EVAPORATION  
GAS-LIQUID INTERACTIONS  
GAS-METAL INTERACTIONS  
NUCLEATION  
#PHASE TRANSFORMATIONS  
REFRIGERATING  
SATURATION  
SEPARATION  
SUBLIMATION  
SUPERCOOLING  
SUPERSATURATION

## CONDITIONED RESPONSES

## USE CONDITIONING (LEARNING)

## CONDITIONING

0502 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT BENEFICIATION  
CONDITIONING (LEARNING)  
POWER CONDITIONING  
PRECONDITIONING

## CONDITIONING (LEARNING)

0408 0410  
UP CONDITIONED RESPONSES  
BT #LEARNING  
RT BEHAVIOR  
CONDITIONING  
HABITUATION (LEARNING)  
INHIBITION (PSYCHOLOGY)

## CONDITIONING (TREATING)

## USE TREATMENT

## CONDITIONS

2311 3406 3408  
RT ADIABATIC CONDITIONS  
CHRONIC CONDITIONS  
FLIGHT CONDITIONS  
KUTTA-JOUKOWSKI CONDITION  
LIPSCHITZ CONDITION  
NONEQUILIBRIUM CONDITIONS  
RUNWAY CONDITIONS

## CONDOR MISSILE

3101 3401  
BT AIR TO SURFACE MISSILES  
#MISSILES

## CONDUCTANCE

## USE RESISTANCE

## CONDUCTING

## USE CONDUCTION

## CONDUCTING FLUIDS

2304  
(EXCLUDES PLASMAS)

## RT #CONDUCTORS

## ELECTROLYTES

## MAGNETOHYDRODYNAMICS

## CONDUCTING MEDIA

## USE #CONDUCTORS

## CONDUCTION

0906 1001 1002 2302 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

## UP CONDUCTING

RT #ATTENUATION  
CONDUCTIVE HEAT TRANSFER  
CONVECTION  
ELECTRIC CONDUCTORS

# NASA THESAURUS (ALPHABETICAL LISTING)

ELECTRIC POWER TRANSMISSION  
HEAT TRANSFER  
#HEATING  
#REFRACTION  
SOUND PROPAGATION  
SOUND TRANSMISSION  
THERMAL CONDUCTORS  
THERMAL DIFFUSION  
#TRANSMISSION  
WAVE PROPAGATION

CONDUCTION BANDS  
2302 2602 2603  
BT ENERGY BANDS  
RT BAND STRUCTURE OF SOLIDS  
BANDS  
BRILLOUIN ZONES  
CONDUCTION ELECTRONS  
ELECTRON TRANSITIONS  
FRANCK-CONDON PRINCIPLE  
POLARONS  
SEMICONDUCTORS (MATERIALS)  
TRAPPING

CONDUCTION ELECTRONS  
1002 2302 2304 2403  
BT CHARGED PARTICLES  
ELECTRONS  
ELEMENTARY PARTICLES  
#PARTICLES

RT CONDUCTION BANDS  
FREE ELECTRONS  
VALENCE

CONDUCTIVE HEAT TRANSFER  
2302 3303  
UF HEAT CONDUCTION  
BT HEAT TRANSFER  
HEAT TRANSMISSION  
#TRANSMISSION

RT CONDUCTION  
CONVECTIVE HEAT TRANSFER  
LAMINAR HEAT TRANSFER  
THERMAL CONDUCTIVITY  
THERMAL CONDUCTORS

CONDUCTIVITY  
0906 2302 2304 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ATMOSPHERIC CONDUCTIVITY  
#ELECTRICAL PROPERTIES  
ELECTRICAL RESISTIVITY  
#FLUID FLOW  
#IMPEDANCE  
IONOSPHERIC CONDUCTIVITY  
MAGNETORESISTIVITY  
MOBILITY  
OHMS LAW  
PHOTOCONDUCTIVITY  
PLASMA CONDUCTIVITY  
SUPERCONDUCTIVITY  
THERMAL CONDUCTIVITY  
#TRANSPORT PROPERTIES  
VOID RATIO

CONDUCTIVITY METERS  
0904 1406  
NT ELECTRICAL CONDUCTIVITY METERS  
BT #MEASURING INSTRUMENTS

#CONDUCTORS  
0901 0902 0904 0905 0906 1002 2302  
UF CONDUCTING MEDIA  
AIRCRAFT ANTENNAS  
ANOLYTES  
ANTENNAS  
BUS CONDUCTORS  
CASSEGRAIN ANTENNAS  
CATHOLYTES  
DELTA ANTENNAS  
DIPOLE ANTENNAS  
DIRECTIONAL ANTENNAS  
ELECTRIC CONDUCTORS  
ELECTRIC WIRE  
ELECTROLYTES  
EXPLODING WIRES  
FLAT CONDUCTORS  
HELICAL ANTENNAS  
HORN ANTENNAS  
INERTIALLESS STEERABLE ANTENNAS  
ION EXCHANGE MEMBRANE ELECTROLYTES  
LENS ANTENNAS  
LOG PERIODIC ANTENNAS  
LOG SPIRAL ANTENNAS  
LOOP ANTENNAS  
MICROWAVE ANTENNAS

MISSILE ANTENNAS  
MOLTEN SALT ELECTROLYTES  
MONOPOLE ANTENNAS  
MONOPULSE ANTENNAS  
MULTIPLE BEAM INTERVAL SCANNERS  
OMNIDIRECTIONAL ANTENNAS  
PARABOLIC ANTENNAS  
PHOTOCONDUCTORS  
RADAR ANTENNAS  
RADIO ANTENNAS  
RHOMBIC ANTENNAS  
SCHWARZSCHILD ANTENNAS  
SLOT ANTENNAS  
SPIRAL ANTENNAS  
STEERABLE ANTENNAS  
SUPERCONDUCTORS  
THERMAL CONDUCTORS  
TURNSTILE ANTENNAS  
TWO REFLECTOR ANTENNAS  
WAVEGUIDE ANTENNAS  
YAGI ANTENNAS

BT ANTENNAS  
CONDUCTING FLUIDS  
#METALS  
NONFERROUS METALS  
ORGANIC SEMICONDUCTORS  
SEMICONDUCTORS (MATERIALS)

#CONES  
0404 1902 3105 3110  
(LIMITED TO MATERIAL OBJECTS)

UF CONICAL FLARE  
FUSIFORM SHAPES

NT ABLATIVE NOSE CONES  
CIRCULAR CONES  
CONICAL BODIES  
NOSE CONES  
ROCKET NOSE CONES  
SLENDER CONES

RT AERODYNAMIC CONFIGURATIONS  
BODIES OF REVOLUTION  
CONICAL SHELLS  
CONICS  
FRUSTUMS  
HALF CONES  
MACH CONES

#SYMMETRICAL BODIES

CONFERENCES  
0410 3402 3406  
UF MEETINGS  
RT CONGRESS  
CONSULTING  
CONVENTIONS  
DISCUSSION  
PROCEEDINGS

CONFIDENCE  
1905  
RT CONFIDENCE LIMITS  
CORRELATION  
ERRORS  
PROBABILITY THEORY  
#PSYCHOLOGICAL EFFECTS  
QUALITY CONTROL  
RELIABILITY  
RISK

#STATISTICAL ANALYSIS

CONFIDENCE LIMITS  
1902 1905  
RT CONFIDENCE  
CONTINGENCY  
ESTIMATES  
#FORECASTING  
MAXIMUM LIKELIHOOD ESTIMATES  
MEASUREMENT  
NULL HYPOTHESIS  
PRECISION

#PREDICTIONS  
QUALITY CONTROL  
#RANGE (EXTREMES)  
RELIABILITY  
RISK  
SAMPLING  
SIGNIFICANCE  
STANDARD DEVIATION  
#STATISTICAL ANALYSIS  
STATISTICAL TESTS  
TESTS  
VARIANCE (STATISTICS)

CONFIGURATION MANAGEMENT  
3404 3406  
BT #MANAGEMENT  
RT CONFIGURATIONS

## CONICAL BODIES

CONFIGURATIONS  
0101 0202 1902 2311 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT AERODYNAMIC CONFIGURATIONS  
CONFIGURATION MANAGEMENT  
LAUNCH VEHICLE CONFIGURATIONS  
MISSILE CONFIGURATIONS  
PROPULSION SYSTEM CONFIGURATIONS  
SPACECRAFT CONFIGURATIONS  
STAGGERING  
TORPEDOES

CONFINEMENT  
2203 2502 0504 0507  
RT ASTRONAUT PERFORMANCE  
CONTAINMENT  
ISOLATION  
NUCLEAR REACTOR CONTROL  
PLASMA CONTROL  
SENSORY DEPRIVATION

CONFINING  
0401 3407  
RT ASTRONAUT PERFORMANCE  
DEPRIVATION  
ISOLATION  
SENSORY DEPRIVATION

CONFIRMATION  
USE PROVING

CONFLUENCE  
USE CONVERGENCE

CONFORMAL MAPPING  
1902  
UF CONFORMAL TRANSFORMATIONS  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
COORDINATE TRANSFORMATIONS  
EULER-Cauchy EQUATIONS  
GRAPHS (CHARTS)  
INVARIANT IMBEDDINGS  
JACOBI INTEGRAL  
LAMBERT SURFACE  
LIGHTHILL METHOD  
SCHWARZ-CHRISTOFFEL TRANSFORMATION  
THEODORSEN TRANSFORMATION

CONFORMAL TRANSFORMATIONS  
USE CONFORMAL MAPPING.

CONFUSION  
3406  
RT ENTRAPMENT  
TANGLING

CONGENERS  
0404  
BT #ANATOMY  
CONNECTIVE TISSUE  
MUSCULOSKELETAL SYSTEM  
RT MUSCLES

CONGENITAL ANOMALIES  
0404 0408  
UF CONGENITAL CONDITIONS  
RT HEREDITY

CONGENITAL CONDITIONS  
USE CONGENITAL ANOMALIES

CONGESTION  
0404 0408  
BT #CIRCULATION  
RT ISCHEMIA  
PNEUMONIA  
RESPIRATORY DISEASES  
VASODILATION

CONGRESS  
3403  
RT CONFERENCES  
FEDERATIONS  
#ORGANIZATIONS  
PROCEEDINGS  
UNITED STATES OF AMERICA

CONGRUENCES  
1902 3406  
BT #NUMBER THEORY  
RT COHERENCE  
COLLOCATION  
DIVIDING (MATHEMATICS)  
#GEOMETRY  
IDENTITIES  
INTEGERS  
SYMMETRY

CONICAL BODIES  
1202 3202  
UF CONOIDS  
ROTATING CONES.

## CONICAL CAMBER

NT SLENDER CONES  
 BT BODIES OF REVOLUTION  
 #CONES  
 #SYMMETRICAL BODIES  
 RT AFTERBODIES  
 AXISYMMETRIC BODIES  
 CONICAL NOZZLES  
 CONICAL CAMBER  
 0104  
 BT CAMBER  
 RT WING CAMBER  
 CONICAL FLARE  
 USE #CONES  
 CONICAL FLOW  
 1202 1203  
 RT AXISYMMETRIC FLOW  
 BAPPLERS  
 DIFFUSERS  
 #FLUID FLOW  
 MULTIPHASE FLOW  
 SEPARATED FLOW  
 THREE DIMENSIONAL FLOW  
 WALL FLOW  
 WEDGE FLOW  
 CONICAL INLETS  
 1504 3202  
 BT #INTAKE SYSTEMS  
 RT AIR INTAKES  
 CONICAL NOZZLES  
 CONICAL SHELLS  
 FUNNELS  
 CONICAL NOZZLES  
 1201 1504 2806  
 RT ANNULAR NOZZLES  
 CONICAL BODIES  
 CONICAL INLETS  
 CONICAL SHELLS  
 CONVERGENT-DIVERGENT NOZZLES  
 CONVERGENT NOZZLES  
 DIVERGENT NOZZLES  
 EXHAUST DIFFUSERS  
 EXHAUST NOZZLES  
 HYPERSONIC NOZZLES  
 INLET NOZZLES  
 JET NOZZLES  
 NOZZLE GEOMETRY  
 NOZZLE INSERTS  
 NOZZLE WALLS  
 NOZZLES  
 PLUG NOZZLES  
 ROCKET NOZZLES  
 SKIRTS  
 SONIC NOZZLES  
 SPIKE NOZZLES  
 SPRAY NOZZLES  
 SUPERSONIC NOZZLES  
 TRANSONIC NOZZLES  
 TURBINE EXHAUST NOZZLES  
 WIND TUNNEL NOZZLES  
 CONICAL SCANNING  
 0705  
 BT #SCANNING  
 RT EXAMINATION  
 MONITORS  
 PANORAMIC SCANNING  
 RADAR SCANNING  
 READERS  
 READING  
 #SCANNERS  
 SEARCHING  
 SURVEILLANCE  
 CONICAL SHELLS  
 3202  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT #CONES  
 CONICAL INLETS  
 CONICAL NOZZLES  
 CONICS  
 1202 1902  
 NT ELLIPSES  
 HYPERBOLAS  
 PARABOLAS  
 BT ANALYTIC GEOMETRY  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT #CONES  
 HALF CONES  
 LOCI  
 CONJUGATE POINTS  
 1307 1902  
 BT CONJUGATES  
 RT LINES OF FORCE

#MAGNETIC FIELDS  
 CONJUGATES  
 1902  
 NT CONJUGATE POINTS  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 RT CONJUGATION  
 FINITE ELEMENT METHOD  
 CONJUGATION  
 0404 3407  
 RT CONJUGATES  
 CONJUNCTION  
 1901  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOOLEAN ALGEBRA  
 #OCCULTATION  
 #ORBITS  
 PROBABILITY THEORY  
 SET THEORY  
 CONJUNCTIVA  
 0404  
 BT #ANATOMY  
 EYE (ANATOMY)  
 #MEMBRANES  
 SENSE ORGANS  
 RT CONJUNCTIVITIS  
 VISION  
 CONJUNCTIVITIS  
 0404  
 BT #DISEASES  
 EYE DISEASES  
 INFECTIOUS DISEASES  
 RT CONJUNCTIVA  
 CONNECTICUT  
 1305  
 BT UNITED STATES OF AMERICA  
 CONNECTIONS  
 USE #JOINTS (JUNCTIONS)  
 CONNECTIVE TISSUE  
 0404  
 NT CARTILAGE  
 COLLAGENS  
 CONGENERS  
 NARROW  
 BT #ANATOMY  
 MUSCULOSKELETAL SYSTEM  
 RT ADIPOSE TISSUES  
 BONES  
 JOINTS (ANATOMY)  
 LIGAMENTS  
 TENDONS  
 CONNECTORS  
 0902 0904 0905  
 NT ELECTRIC CONNECTORS  
 UMBILICAL CONNECTORS  
 UNIONS (CONNECTORS)  
 RT ADAPTERS  
 CORDAGE  
 COUPLINGS  
 DISCONNECT DEVICES  
 ELECTRIC CONNECTORS  
 #FASTENERS  
 FITTINGS  
 FLANGES  
 PLAT CONDUCTORS  
 #JOINTS (JUNCTIONS)  
 JUMPERS  
 JUNCTIONS  
 LINKAGES  
 SLEEVES  
 TERMINALS  
 UNIONS (CONNECTORS)  
 YOKES  
 CONNECTORS (ELECTRIC)  
 USE ELECTRIC CONNECTORS  
 CONOIDS  
 USE CONICAL BODIES  
 CONSCIOUSNESS  
 0404 0405 0408 0410  
 BT #PERCEPTION  
 SENSORY PERCEPTION  
 RT ATTENTION  
 MENTAL PERFORMANCE  
 #RECOGNITION  
 SLEEP DEPRIVATION  
 CONSECUTIVE EVENTS  
 3406  
 BT EVENTS  
 RT INTERVALS  
 PROBABILITY THEORY

## NASA THESAURUS (ALPHABETICAL LISTING)

SCHEDULING  
 SEQUENCING  
 SEQUENTIAL CONTROL  
 TIME MEASUREMENT  
 CONSERVATION  
 0505 2308 2311  
 RT AGRICULTURE  
 CONSERVATION EQUATIONS  
 FORESTS  
 LAND USE  
 NEWTON SECOND LAW  
 NONCONSERVATIVE FORCES  
 PARITY  
 POTABLE WATER  
 SOIL SCIENCE  
 #SOILS  
 WATER MANAGEMENT  
 WATER RECLAMATION  
 CONSERVATION EQUATIONS  
 2308 2311  
 RT CONSERVATION  
 CONSERVATION LAWS  
 CONTINUITY EQUATION  
 EQUATIONS  
 NONCONSERVATIVE FORCES  
 VORTICITY TRANSPORT HYPOTHESIS  
 CONSERVATION LAWS  
 2308 2311  
 BT #LAWS  
 RT CONSERVATION EQUATIONS  
 MOMENTUM THEORY  
 NEWTON THEORY  
 NONCONSERVATIVE FORCES  
 CONSISTENCY  
 1202 1503 1505 2311 3406  
 RT ABILITIES  
 ACCURACY  
 EFFORT  
 ERRORS  
 LEVELING  
 LINEARITY  
 MEASUREMENT  
 PERFORMANCE  
 PRECISION  
 QUALITY  
 RATINGS  
 RELIABILITY  
 TOLERANCES (MECHANICS)  
 VALIDITY  
 VARIABILITY  
 CONSOLES  
 0701 0802  
 NT REMOTE CONSOLES  
 RT AUTOMATIC TYPEWRITERS  
 #COMPUTER COMPONENTS  
 CONTROL BOARDS  
 DATA PROCESSING TERMINALS  
 #DISPLAY DEVICES  
 HEAD-UP DISPLAYS  
 MAN MACHINE SYSTEMS  
 MANUAL CONTROL  
 CONSOLIDATION  
 2311 3203 3406  
 RT DENSIFICATION  
 OVERCONSOLIDATION  
 STABILIZATION  
 CONSONANTS (SPEECH)  
 2311 3408  
 RT #SPEECH  
 VOWELS  
 WORDS (LANGUAGE)  
 CONSTANT  
 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #COEFFICIENTS  
 #CONSTANTS  
 INVARIANCE  
 TIME CONSTANT  
 CONSTANT SPEED PROPELLERS  
 USE VARIABLE PITCH PROPELLERS  
 CONSTANTAN  
 0904 1406 1408 3304  
 RT THERMOCOUPLES  
 #CONSTANTS  
 1902  
 NT BOHR MAGNETON  
 GRAVITATIONAL CONSTANT  
 GRUNEISEN CONSTANT  
 PERCEPTUAL TIME CONSTANT  
 PLANCKS CONSTANT

# NASA THESAURUS (ALPHABETICAL LISTING)

SOLAR CONSTANT  
 TIME CONSTANT  
 RT #COEFFICIENTS  
 CONSTANT  
 CONSTELLATIONS  
 3001  
 NT ANDROMEDA CONSTELLATION  
 ARIES CONSTELLATION  
 AURIGA CONSTELLATION  
 CASSIOPEIA CONSTELLATION  
 CENTAURUS CONSTELLATION  
 CEPHEUS CONSTELLATION  
 CORONA BOREALIS CONSTELLATION  
 CYGNUS CONSTELLATION  
 LYRAE CONSTELLATION  
 ORION CONSTELLATION  
 SAGITTARIUS CONSTELLATION  
 SCORPIUS CONSTELLATION  
 SCUTUM CONSTELLATION  
 TAURUS CONSTELLATION  
 RT ASTROLOGY  
 CELESTIAL SPHERE  
 PLANISPHERES  
 STARS  
 ZODIAC  
 CONSTITUTION  
 2401 2404 3403  
 RT ATOMIC STRUCTURE  
 GOVERNMENTS  
 #LAW (JURISPRUDENCE)  
 CONSTITUTIONAL DIAGRAMS  
 USE PHASE DIAGRAMS  
 CONSTITUTIVE EQUATIONS  
 2304 2402  
 RT ELECTRIC FIELDS  
 EQUATIONS  
 MAGNETIC CHARGE DENSITY  
 #MAGNETIC FIELDS  
 MAGNETIC FLUX  
 CONSTRAINTS  
 1902 2308 2403  
 UP HINDRANCE  
 LIMITATIONS  
 RESTRAINTS  
 NT METEOROLOGICAL PARAMETERS  
 RT BLOCKING  
 CONSTRICTIONS  
 DYNAMIC PROGRAMMING  
 HOLDING  
 LINEAR PROGRAMMING  
 NONLINEAR PROGRAMMING  
 OPERATIONS RESEARCH  
 #OPTIMIZATION  
 #RANGE (EXTREMES)  
 RETAINING  
 CONSTRICTIONS  
 0202 1001 1202 1504 2501 2806  
 UP RESTRICTIONS  
 RT BARRIERS  
 BLOCKING  
 CHOKES (RESTRICTIONS)  
 CLOSURES  
 CONSTRAINTS  
 CONTACTS  
 #IMPEDANCE  
 PLUGGING  
 RESISTANCE  
 RETARDERS (DEVICES)  
 SEALS (STOPPERS)  
 STOPPING  
 CONSTRICTORS  
 0404 0408  
 BT #ANATOMY  
 MUSCULOSKELETAL SYSTEM  
 CONSTRUCTION  
 0101 1102 1105 1106 1108 3203 3404  
 (EXCLUDES TYPES OF STRUCTURES)  
 UP ERECTION  
 RT ARCHITECTURE  
 ASSEMBLING  
 BRIDGES (STRUCTURES)  
 BUILDINGS  
 CONSTRUCTION MATERIALS  
 CONTRACTORS  
 CONTRACTS  
 DESIGN  
 EXCAVATION  
 FABRICATION  
 HIGHWAYS  
 INSPECTION  
 INSTALLING  
 LAYOUTS

MAINTENANCE  
 MASONRY  
 QUALITY CONTROL  
 #RECONSTRUCTION  
 RIGGING  
 STEEL STRUCTURES  
 STRESS ANALYSIS  
 #STRUCTURAL ANALYSIS  
 STRUCTURAL DESIGN  
 STRUCTURAL ENGINEERING  
 #STRUCTURAL MEMBERS  
 SURVEYS  
 TUNNELING (EXCAVATION)  
 #WELDING  
 CONSTRUCTION MATERIALS  
 0101 1801 1805 3203 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP BUILDING MATERIALS  
 STRUCTURAL MATERIALS  
 RT AGGREGATES  
 AIRFRAME MATERIALS  
 ARCHITECTURE  
 BITUMENS  
 BOARDS (PAPER)  
 BRICKS  
 CEMENTS  
 #COMPOSITE MATERIALS  
 CONCRETES  
 CONSTRUCTION  
 GROUT  
 INSULATION  
 LATHES  
 MASONITE (TRADEMARK)  
 MASONRY  
 PANELS  
 #PLASTICS  
 PROTECTIVE COATINGS  
 REACTOR MATERIALS  
 SKIN (STRUCTURAL MEMBER)  
 SPACECRAFT CONSTRUCTION MATERIALS  
 #STRUCTURAL MEMBERS  
 CONSULTING  
 3406  
 RT CONFERENCES  
 MANAGEMENT PLANNING  
 #PERSONNEL  
 #RESOURCES  
 CONSUMERS  
 3402  
 RT CONSUMPTION  
 MARKET RESEARCH  
 MARKETING  
 PRODUCT DEVELOPMENT  
 CONSUMPTION  
 0404 2701 2702 2808 3001  
 NT FUEL CONSUMPTION  
 OXYGEN CONSUMPTION  
 WATER CONSUMPTION  
 RT COMMERCE  
 CONSUMERS  
 DEMAND (ECONOMICS)  
 DEPLETION  
 EXHAUSTING  
 EXHAUSTION  
 SUPPLYING  
 UTILIZATION  
 CONTACT DERMATITIS  
 0405  
 BT DERMATITIS  
 #DISEASES  
 INFECTIOUS DISEASES  
 RT ALLERGIC DISEASES  
 DERMATOLOGY  
 EPIDERMIS  
 ITCHING  
 PATCH TESTS  
 SKIN (ANATOMY)  
 CONTACT LENSES  
 0405 0408  
 BT LENSES  
 RT EYEPieces  
 CONTACT POTENTIALS  
 1704 2304  
 BT ELECTRIC POTENTIAL  
 #POTENTIAL ENERGY  
 RT CONTACT RESISTANCE  
 ELECTRIC CONTACTS  
 #SURFACE PROPERTIES  
 CONTACT RESISTANCE  
 1001 1002 2304

## CONTAMINANTS

BT ELECTRICAL IMPEDANCE  
 #ELECTRICAL PROPERTIES  
 ELECTRICAL RESISTANCE  
 #IMPEDANCE  
 RT CONTACT POTENTIALS  
 ELECTRIC CONTACTS  
 NONOHMIC EFFECT  
 RESISTANCE  
 #SURFACE PROPERTIES  
 CONTACTORS  
 0902 0904 1504  
 (EXCLUDES ELECTRIC SWITCHES)  
 RT CARBURETORS  
 CHEMICAL REACTORS  
 COLUMNS (PROCESS ENGINEERING)  
 ELECTRIC SWITCHES  
 MIXERS  
 SPRAYERS  
 CONTACTS (ELECTRIC)  
 USE ELECTRIC CONTACTS  
 CONTAINERLESS BELTS  
 0602 2601 2603 3009 3404 3407  
 RT CRYSTAL GROWTH  
 CRYSTALLIZATION  
 #CRYSTALS  
 LOW GRAVITY MANUFACTURING  
 MANUFACTURING  
 MELTING  
 ORBITAL WORKSHOPS  
 WEIGHTLESSNESS  
 CONTAINERS  
 0202 0505 1103 1502 2806 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP RECEPTACLES (CONTAINERS)  
 RT AMPOULES  
 AUTOCLAVES  
 BAGS  
 BARRELS (CONTAINERS)  
 BASKETS  
 BIOPAKS  
 BOTTLES  
 BOXES (CONTAINERS)  
 BUNDLES  
 CANS  
 CARTRIDGES  
 CASES (CONTAINERS)  
 CRUCIBLES  
 DISPOSAL  
 DRUMS (CONTAINERS)  
 ENCLOSURES  
 FUEL TANKS  
 GLASSWARE  
 HOPPERS  
 HOUSINGS  
 MATERIALS HANDLING  
 MICROMODULES  
 PACKAGES  
 PACKAGING  
 PRESERVING  
 PRESSURE VESSELS  
 PROTECTORS  
 REELS  
 SPOOLS  
 SPRAYERS  
 #TANKS (CONTAINERS)  
 TRANSPORTER  
 TRAYS  
 WING TANKS  
 CONTAINMENT  
 2204 3407  
 RT BLOCKING  
 CONFINEMENT  
 RETAINING  
 SEALING  
 STOPPING  
 CONTAMINANTS  
 0411 0504 0505 0602  
 UP NOXIOUS MATERIALS  
 POLLUTANTS  
 NT RADIOACTIVE CONTAMINANTS  
 TRACE CONTAMINANTS  
 RT CONTAMINATION  
 DECONTAMINATION  
 DILUENTS  
 DIRT  
 #DUST  
 EFFLUENTS  
 FUEL CONTAMINATION  
 IMPURITIES  
 #POLLUTION

## CONTAMINATION

PURITY  
QUALITY  
#WASTES  
WATER TREATMENT  
CONTAMINATION  
0411 0412 0601 1505 3404  
NT FUEL CONTAMINATION  
SPACECRAFT CONTAMINATION  
RT AIR POLLUTION  
ANTIINFECTIVES AND ANTIBACTERIALS  
CONTAMINANTS  
DECONTAMINATION  
FOULING  
INTRUSION  
#POLLUTION  
PURITY  
RADIOACTIVE WASTES  
WATER POLLUTION  
CONTENT  
0601 3404 3405  
RT COMPOSITION  
CONTEXT FREE LANGUAGES  
0802 0803  
BT #LANGUAGES  
MACHINE ORIENTED LANGUAGES  
RT COMPUTER PROGRAMMING  
SYMBOLIC PROGRAMMING  
CONTINENTAL DRIFT  
1306  
RT #CONTINENTS  
EARTH CRUST  
EARTH PLANETARY STRUCTURE  
GEOMAGNETISM  
GEOPHYSICS  
PALEOMAGNETISM  
CONTINENTAL SHELVES  
1305 1306  
RT #GEOLOGY  
OCEAN BOTTOM  
SHELVES  
#CONTINENTS  
1305  
NT AFRICA  
ASIA  
AUSTRALIA  
EUROPE  
NORTH AMERICA  
SOUTH AMERICA  
RT ANTARCTIC REGIONS  
CONTINENTAL DRIFT  
GEOGRAPHY  
MOUNTAINS  
TRANSCONTINENTAL SYSTEMS  
CONTINGENCY  
1501 3406  
RT CONFIDENCE LIMITS  
CORRELATION  
ESTIMATES  
EXPECTATION  
MATERIALS HANDLING  
#PREDICTIONS  
RESERVES  
RISK  
CONTINUITY  
0804 1902 2311  
RT CONTINUITY (MATHEMATICS)  
COORDINATION  
SCHEDULING  
TOPOLOGY  
VARIABILITY  
CONTINUITY (MATHEMATICS)  
1902 1903 1905  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
RT CONTINUITY  
#FUNCTIONS (MATHEMATICS)  
ISOPERIMETRIC PROBLEM  
NORMAL DENSITY FUNCTIONS  
POISSON DENSITY FUNCTIONS  
PROBABILITY DENSITY FUNCTIONS  
#STATISTICAL ANALYSIS  
SYMMETRY  
TOPOLOGY  
CONTINUITY EQUATION  
1202 1203 1902 2003 2304 3303  
RT CONSERVATION EQUATIONS  
CONTINUUM MECHANICS  
CROCCO-LEE THEORY  
EQUATIONS  
#EQUATIONS OF MOTION  
EQUATIONS OF STATE  
FLUID DYNAMICS

NONCONSERVATIVE FORCES  
STEADY FLOW  
CONTINUOUS NOISE  
0704 0705  
RT NOISE  
CONTINUOUS RADIATION  
0710 1411 1902 2306 2310 2402  
UP CONTINUOUS WAVES  
NT MODULATED CONTINUOUS RADIATION  
RT ABSORPTION SPECTRA  
BACKGROUND RADIATION  
#COHERENT RADIATION  
CONTINUOUS WAVE RADAR  
CORPUSCULAR RADIATION  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
EMISSION SPECTRA  
PULSED RADIATION  
RADIATION  
RAYS  
CONTINUOUS WAVE RADAR  
0702 0705 0707 0709 3401  
UP CW RADAR  
BT #RADAR  
RT COHERENT RADAR  
CONTINUOUS RADIATION  
DOPPLER RADAR  
PULSE RADAR  
RADAR DETECTION  
RADAR RANGE  
SEARCH RADAR  
SURVEILLANCE RADAR  
TRACKING RADAR  
CONTINUOUS WAVES  
USE CONTINUOUS RADIATION  
CONTINUUM FLOW  
1202 1203  
BT #FLUID FLOW  
GAS FLOW  
RT CONTINUUM MECHANICS  
FREE MOLECULAR FLOW  
MOLECULAR FLOW  
RAREFIED GAS DYNAMICS  
SLIP FLOW  
CONTINUUM MECHANICS  
1202 1905 2308 2311 3203  
RT BURGER EQUATION  
#CLASSICAL MECHANICS  
CONTINUITY EQUATION  
CONTINUUM FLOW  
DYNAMICS  
FLOW THEORY  
#FLUID MECHANICS  
MAXWELL BODIES  
MECHANICS (PHYSICS)  
MULTIPOLAR FIELDS  
STATISTICAL MECHANICS  
STRESS TENSORS  
CONTINUUMS  
1902 2311  
RT PROBABILITY THEORY  
REAL VARIABLES  
RELATIVITY  
TOPOLOGY  
CONTOURS  
1303 1304 1306 1902 1903 2003  
UP CURVED SURFACES  
RT CONCAVITY  
CONVEITY  
CURVED PANELS  
DATUM (ELEVATION)  
ELEVATION  
FLATNESS  
GEOMORPHOLOGY  
MAPPING  
ROUGHNESS  
SHAPES  
TOPOGRAPHY  
CONTRACT INCENTIVES  
1106 3401 3402 3406 3409  
RT CONTRACT NEGOTIATION  
CONTRACT MANAGEMENT  
3404 3406  
BT #MANAGEMENT  
RT CONTRACTS  
DECISION MAKING  
DECISIONS  
PERT  
PROJECT MANAGEMENT  
SUBCONTRACTS  
SYSTEMS ENGINEERING

## NASA THESAURUS (ALPHABETICAL LISTING)

CONTRACT NEGOTIATION  
3406  
RT CONTRACT INCENTIVES  
CONTRACTORS  
CONTRACTS  
DECISION MAKING  
GOVERNMENT/INDUSTRY RELATIONS  
#INDUSTRIES  
#MANAGEMENT  
MANUFACTURING  
SUBCONTRACTS  
CONTRACTION  
2311 3407  
RT #COOLING  
REDUCTION  
SHRINKAGE  
CONTRACTORS  
1106 3401 3402 3406 3409  
RT CHEMICAL REACTORS  
COLUMNS (PROCESS ENGINEERING)  
CONSTRUCTION  
CONTRACT NEGOTIATION  
CONTRACTS  
GOVERNMENT/INDUSTRY RELATIONS  
#INDUSTRIES  
QUALIFICATIONS  
SUBCONTRACTS  
#TRANSPORTATION  
CONTRACTS  
1106 3401 3402 3406 3409  
NT SUBCONTRACTS  
RT AGREEMENTS  
CANCELLATION  
CONSTRUCTIONS  
CONSTRUCTION  
CONTRACT MANAGEMENT  
CONTRACT NEGOTIATION  
CONTRACTORS  
ESTIMATES  
ESTIMATING  
EXTENSIONS  
FEDERAL BUDGETS  
GOVERNMENT PROCUREMENT  
GOVERNMENT/INDUSTRY RELATIONS  
GRANTS  
LEGAL LIABILITY  
OPTIONS  
PROCUREMENT  
PROJECTS  
REVISIONS  
SUPPLEMENTS  
CONTRAILS  
0101 1202 1203  
UP CONDENSATION TRAILS  
VAPOR TRAILS  
RT CONDENSATES  
#WAKES  
CONTRALATERAL FUNCTIONS  
0404  
RT FUNCTIONS  
CONTRAST  
0605 0702 1407  
NT IMAGE CONTRAST  
PHASE CONTRAST  
RT CHARACTER RECOGNITION  
COLOR  
LEGIBILITY  
#PERCEPTION  
PRINTING  
#RESOLUTION  
SHARPNESS  
VISIBILITY  
VISION  
CONTROL  
1003 2102 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP CONTROL SYSTEMS  
CONTROLLED STABILITY  
REGULATION  
RT ADAPTIVE CONTROL  
AIR NAVIGATION  
AIRCRAFT CONTROL  
ASTRONOMICS  
#ATTITUDE CONTROL  
#AUTOMATIC CONTROL  
AUTOMATIC FLIGHT CONTROL  
AVIONICS  
BOUNDARY LAYER CONTROL  
CHEMICAL REACTION CONTROL  
COMBUSTION CONTROL



# NASA THESAURUS (ALPHABETICAL LISTING)

COMMAND AND CONTROL  
 CONTROL THEORY  
 CONTROLLABILITY  
 #CONTROLLERS  
 CRITICAL PATH METHOD  
 CYBERNETICS  
 DIRECT LIFT CONTROLS  
 #DYNAMIC CHARACTERISTICS  
 DYNAMIC CONTROL  
 ELECTRIC CONTROL  
 ELECTRONIC CONTROL  
 ENGINE CONTROL  
 ENVIRONMENTAL CONTROL  
 FEEDBACK CONTROL  
 FIRE CONTROL  
 #FLIGHT CONTROL  
 FLUIDICS  
 FREQUENCY CONTROL  
 FUEL CONTROL  
 #GROUND BASED CONTROL  
 HELICOPTER CONTROL  
 HYDRAULIC CONTROL  
 INVENTORY CONTROLS  
 JET CONTROL  
 MAGNETIC CONTROL  
 MANUAL CONTROL  
 MISSILE CONTROL  
 NUCLEAR REACTOR CONTROL  
 OPTIMAL CONTROL  
 PHASE CONTROL  
 PLASMA CONTROL  
 PNEUMATIC CONTROL  
 POINTING CONTROL SYSTEMS  
 QUALITY CONTROL  
 REGULATIONS  
 #REGULATORS  
 REMOTE CONTROL  
 ROCKET ENGINE CONTROL  
 SATELLITE CONTROL  
 SCHEDULING  
 SELF ADAPTIVE CONTROL SYSTEMS  
 SERVOCONTROL  
 SERVOMECHANISMS  
 SHOCK WAVE CONTROL  
 #SPACECRAFT CONTROL  
 SPEED CONTROL  
 STABILIZATION  
 STEERING  
 SYSTEMS ENGINEERING  
 TEMPERATURE CONTROL  
 THRUST CONTROL  
 #TRAFFIC CONTROL  
 TRAJECTORY CONTROL  
 VISUAL CONTROL  
 CONTROL BOARDS  
 0701 0803  
 UF CONTROL PANELS  
 RT CONSOLES  
 #DISPLAY DEVICES  
 MANUAL CONTROL  
 REMOTE CONTROL  
 CONTROL DATA (COMPUTERS)  
 0802  
 RT COMPUTERS  
 DATA  
 DATA SYSTEMS  
 CONTROL DEVICES  
 USE CONTROL EQUIPMENT  
 CONTROL EQUIPMENT  
 0202 0203 0904 0905 1003 1201 1402  
 1410 1504 2101 2102  
 UF CONTROL DEVICES  
 EFFECTORS  
 TASK SEQUENCERS  
 NT CRYOSTATS  
 PRESSURE REGULATORS  
 PRESSURE SWITCHES  
 SERVOAMPLIFIERS  
 SPEED REGULATORS  
 TELEOPERATORS  
 THERMOSTATS  
 RT AIRCRAFT CONTROL  
 #AUTOMATIC CONTROL  
 ELECTRIC CONTROL  
 ELECTRONIC CONTROL  
 FEEDBACK CONTROL  
 MANIPULATORS  
 MANUAL CONTROL  
 NONLINEAR SYSTEMS  
 OFF-ON CONTROL  
 PNEUMATIC CONTROL  
 PROPORTIONAL CONTROL

#RECORDING INSTRUMENTS  
 SPEED CONTROL  
 #TRANSDUCERS  
 CONTROL MOMENT GYROSCOPES  
 2104 1402 1403 1406 1410 2104  
 BT #GYROSCOPES  
 RT #ATTITUDE CONTROL  
 ATTITUDE GYROS  
 ATTITUDE INDICATORS  
 #EQUATIONS OF MOTION  
 GIMBALS  
 INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 SERVOCONTROL  
 SERVOMECHANISMS  
 CONTROL PANELS  
 USE CONTROL BOARDS  
 CONTROL ROCKETS  
 2806 2808 3106  
 UF STEERING ROCKETS  
 BT #ENGINES  
 TORPEDO ENGINES  
 VERNIER ENGINES  
 RT RETROCKET ENGINES  
 STEERING  
 THRUST CONTROL  
 VARIABLE THRUST  
 CONTROL RODS  
 0303 1504 2203 2204  
 BT RODS  
 RT NEUTRON ABSORBERS  
 NUCLEAR REACTOR CONTROL  
 #NUCLEAR REACTORS  
 POISONING (REACTION INHIBITION)  
 REACTOR CORES  
 REACTOR SAFETY  
 CONTROL SIMULATION  
 0802 0804 1003 1107 2102  
 BT #SIMULATION  
 #SIMULATORS  
 RT AIRCRAFT CONTROL  
 COMPUTERIZED SIMULATION  
 CONTROL THEORY  
 FLIGHT SIMULATION  
 FLIGHT SIMULATORS  
 #SPACECRAFT CONTROL  
 SPACECRAFT MANEUVERS  
 TRAINING SIMULATORS  
 CONTROL STABILITY  
 0104 1003 2102  
 UF GUIDANCE STABILITY  
 BT #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 #STABILITY  
 RT AIRCRAFT CONTROL  
 AIRCRAFT STABILITY  
 CONTROLLABILITY  
 #FLIGHT CONTROL  
 MOTION STABILITY  
 NYQUIST DIAGRAM  
 SPACECRAFT MOTION  
 SPACECRAFT STABILITY  
 SYSTEMS STABILITY  
 #CONTROL SURFACES  
 0104  
 NT AERIAL RUDDERS  
 AILERONS  
 ELEVATORS (CONTROL SURFACES)  
 ELEVONS  
 FLAPS (CONTROL SURFACES)  
 GUIDE VANES  
 HORIZONTAL TAIL SURFACES  
 JET FLAPS  
 JET VANES  
 LEADING EDGE SLATS  
 MARINE RUDDERS  
 RUDDERS  
 SPLIT FLAPS  
 SPOILER SLOT AILERONS  
 SPOILERS  
 TABS (CONTROL SURFACES)  
 TRAILING-EDGE FLAPS  
 WING FLAPS  
 RT AERODYNAMIC BRAKES  
 AERODYNAMIC CONFIGURATIONS  
 AERODYNAMICS  
 AIRCRAFT PARTS  
 AIRCRAFT STRUCTURES  
 #AIRFOILS  
 AIRFRAMES  
 BOUNDARY LAYER CONTROL  
 CANARD CONFIGURATIONS

# #CONTROLLERS

#DRAG DEVICES  
 FINS  
 FIRES  
 #FLIGHT CONTROL  
 #GUIDANCE (MOTION)  
 STABILIZERS (FLUID DYNAMICS)  
 SURFACES  
 SWEEPBACK TAIL SURFACES  
 T TAIL SURFACES  
 TAIL ASSEMBLIES  
 TAIL SURFACES  
 TRAPEZOIDAL TAIL SURFACES  
 #VANES  
 WINGS  
 CONTROL SYSTEMS  
 USE CONTROL  
 CONTROL THEORY  
 0804 0902 1003 1902 2102  
 RT ADAPTIVE CONTROL  
 CLOSED CYCLES  
 CONTROL  
 CONTROL SIMULATION  
 CONTROLLABILITY  
 DYNAMIC CONTROL  
 #FEEDBACK  
 FEEDBACK CONTROL  
 OFF-ON CONTROL  
 OPTIMAL CONTROL  
 SERVOCONTROL  
 THEORIES  
 CONTROL UNITS (COMPUTERS)  
 0801  
 RT CENTRAL PROCESSING UNITS  
 #COMPUTER COMPONENTS  
 COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 CONTROL VALVES  
 1201 1504  
 BT #VALVES  
 RT ACTUATORS  
 PNEUMATIC CONTROL  
 CONTROLLABILITY  
 0201 1003 2102 2807  
 UF HANDLING QUALITIES  
 LOW SPEED HANDLING  
 RT AIRCRAFT CONTROL  
 AIRCRAFT LANDING  
 AIRCRAFT PERFORMANCE  
 AIRCRAFT SPECIFICATIONS  
 AIRCRAFT STABILITY  
 CONTROL  
 CONTROL STABILITY  
 CONTROL THEORY  
 DIRECTIONAL STABILITY  
 FLIGHT CHARACTERISTICS  
 HELICOPTER CONTROL  
 HELICOPTER PERFORMANCE  
 LIQUID SLOSHING  
 LOW SPEED STABILITY  
 MANEUVERABILITY  
 QUALITY  
 SPACECRAFT RELIABILITY  
 #STABILITY  
 STEERING  
 WHEEL BRAKES  
 #CONTROLLED ATMOSPHERES  
 0504 0507 3110  
 NT CABIN ATMOSPHERES  
 INERT ATMOSPHERE  
 SPACECRAFT CABIN ATMOSPHERES  
 RT AIR CONDITIONING  
 ATMOSPHERES  
 BLANKETS  
 CLEAN ROOMS  
 #ENVIRONMENTS  
 FURNACES  
 GAS MIXTURES  
 OXYGEN SUPPLY EQUIPMENT  
 SPACECRAFT ENVIRONMENTS  
 CONTROLLED FUSION  
 2202 2204 2405  
 (CONTROLLED NUCLEAR FUSION)  
 BT NUCLEAR FUSION  
 #NUCLEAR REACTIONS  
 THERMONUCLEAR REACTIONS  
 RT PLASMA PHYSICS  
 THERMONUCLEAR POWER GENERATION  
 CONTROLLED STABILITY  
 USE CONTROL  
 #STABILITY  
 #CONTROLLERS  
 0904 0905 1003 1202

## CONVAIR 340 AIRCRAFT

(DEVICES WHICH EMPLOY AN OUTSIDE SOURCE OF ENERGY AND USUALLY UTILIZE FEEDBACK)

NT SERVOAMPLIFIERS  
SERVOMECHANISMS  
SERVOMOTORS

RT ACTUATORS  
ANALYZERS

#AUTOMATIC CONTROL  
AUTOMATION  
CONTROL

CRYOSTATS  
CURRENT REGULATORS

CYBERNETICS  
ELECTRONIC CONTROL  
INSTRUMENT RECEIVERS  
INSTRUMENT TRANSMITTERS  
INSTRUMENTS

#MEASURING INSTRUMENTS  
PNEUMATIC CONTROL  
PRESSURE REGULATORS  
PROPELLANT ACTUATED INSTRUMENTS

#REGULATORS  
REMOTE CONTROL  
ROCKET-BORNE INSTRUMENTS  
SPEED CONTROL  
SPEED REGULATORS  
TEMPERATURE CONTROL  
THERMOSTATS  
VOLTAGE REGULATORS

## CONVAIR 340 AIRCRAFT

USE CV-340 AIRCRAFT

## CONVAIR 440 AIRCRAFT

USE CV-440 AIRCRAFT

## CONVAIR 880 AIRCRAFT

0204

BT #GENERAL DYNAMICS AIRCRAFT

#JET AIRCRAFT

MONOPLANES

PASSENGER AIRCRAFT

#TRANSPORT AIRCRAFT

RT CV-880 AIRCRAFT

## CONVAIR 990 AIRCRAFT

USE CV-990 AIRCRAFT

## CONVAIR MILITARY AIRCRAFT

USE #GENERAL DYNAMICS AIRCRAFT

MILITARY AIRCRAFT

## CONVECTION

1308 2003 3009 3303 3407

NT FORCED CONVECTION

FREE CONVECTION

RT ADVECTION

BASE HEATING

BOUSSINESQ APPROXIMATION

CONDUCTION

CONVECTIVE HEAT TRANSFER

FLUID DYNAMICS

GRASHOP NUMBER

HEAT TRANSMISSION

#HEATING

#METEOROLOGY

## CONVECTION CURRENTS

1308 2003 3009

RT AIR CURRENTS

BENARD CELLS

ELECTRON BUNCHING

#FLUID FLOW

FREE CONVECTION

VERTICAL AIR CURRENTS

## CONVECTIVE FLOW

1202 1203

UP THERMAL CURRENTS

BT #FLUID FLOW

CONVECTIVE HEAT TRANSFER

FREE CONVECTION

GAS DENSITY

HEAT TRANSMISSION

MASS FLOW RATE

MASS TRANSFER

POROUS BOUNDARY LAYER CONTROL

THERMAL DIFFUSION

## CONVECTIVE HEAT TRANSFER

1202 1203 1301 2003 3303

BT HEAT TRANSFER

HEAT TRANSMISSION

#TRANSMISSION

AERODYNAMIC HEATING

BOUNDARY LAYER COMBUSTION

BOUNDARY LAYER FLOW

CONDUCTIVE HEAT TRANSFER

CONVECTION

CONVECTIVE FLOW

COOLING FINS  
FORCED CONVECTION  
FREE CONVECTION  
LAMINAR HEAT TRANSFER  
MASS TRANSFER  
NUSSELT NUMBER  
RADIATIVE HEAT TRANSFER  
SURFACE COOLING  
TEMPERATURE GRADIENTS  
THERMOSIPHONS  
TURBULENT HEAT TRANSFER

## CONVENTIONS

3405 3406

RT AGREEMENTS

COMPATIBILITY

CONFERENCES

INTERNATIONAL COOPERATION

INTERNATIONAL LAW

STANDARDS

## CONVERGENCE

1902 2311

UP CONFLUENCE

RT DIVERGENCE

VARIABILITY

## CONVERGENT-DIVERGENT NOZZLES

1201 1504

UP DE LAVAL NOZZLES

BT EXHAUST NOZZLES

CONICAL NOZZLES

NOZZLE GEOMETRY

NOZZLE INSERTS

NOZZLES

ROCKET NOZZLES

SUPERSONIC NOZZLES

TRANSONIC NOZZLES

TURBINE EXHAUST NOZZLES

WIND TUNNEL NOZZLES

## CONVERGENT NOZZLES

1201 1504

RT CONICAL NOZZLES

FLUID AMPLIFIERS

NOZZLE GEOMETRY

NOZZLE WALLS

NOZZLES

TURBINE ENGINES

TURBOJET ENGINES

## CONVERSATION

0408 0410 0702 3406

BT #COMMUNICATING

#SPEECH

RT VERBAL COMMUNICATION

VOICE COMMUNICATION

WORDS (LANGUAGE)

## CONVERSION

0602 0802 1504 1902 3407

(USE OF A MORE SPECIFIC TERM IS

RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)

RT #ELECTRIC GENERATORS

#EXCHANGING

INTERNAL CONVERSION

ISOMERIZATION

LIQUEFACTION

REFINING

## CONVERSION TABLES

0802 0803 1902

BT TABLES (DATA)

RT DATA CONVERTERS

INTERNATIONAL SYSTEM OF UNITS

UNITS OF MEASUREMENT

## CONVERTAPLANES

USE #V/STOL AIRCRAFT

## CONVERTERS

0801 0904 1413 1504

(USE OF A MORE SPECIFIC TERM IS

RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)

RT ANALOG TO DIGITAL CONVERTERS

DATA CONVERTERS

DIGITAL TO ANALOG CONVERTERS

DIRECT POWER GENERATORS

#ELECTRIC GENERATORS

FREQUENCY CONVERTERS

IMAGE CONVERTERS

PARAMETRIC FREQUENCY CONVERTERS

PULSE WIDTH AMPLITUDE CONVERTERS

PYROMETALLURGY

THERMIONIC CONVERTERS

#TRANSDUCERS

TRANSFORMERS

## CONVEXITY

0101 0201 1902 2311 3203 3408

## NASA THESAURUS (ALPHABETICAL LISTING)

BT SHAPES

RT CONCAVITY

CONTOURS

PLATNESS

LEHTICULAR BODIES

SURFACE GEOMETRY

## CONVEYORS

1502 1504

RT CHUTES

CRANES

ELEVATORS (LIFTS)

FEEDERS

FORKS

LIFTS

MATERIALS HANDLING

RIBBONS

ROLLERS

SCOOPS

TRACKS

#TRANSPORTATION

## CONVOLUTION INTEGRALS

1902 1903

UP CONVOLUTIONS (MATHEMATICS)

BT #ANALYSIS (MATHEMATICS)

FUNCTIONAL ANALYSIS

INTEGRAL TRANSFORMATIONS

## CONVOLUTIONS (MATHEMATICS)

USE CONVOLUTION INTEGRALS

## CONVULSIONS

0405 0408 0410

RT MUSCLES

PSYCHOTHERAPY

SEIZURES

SHOCK

## COOKPOT AIRCRAFT

USE TU-124 AIRCRAFT

## COOLANTS

1803

NT ENGINE COOLANTS

ORGANIC COOLANTS

RT AIR CONDITIONING

AIR COOLING

BRINES

COOLERS

#COOLING

COOLING SYSTEMS

PREON (TRADEMARK)

GAS COOLING

HEAT EXCHANGERS

LIQUID COOLING

#NUCLEAR REACTORS

REACTOR MATERIALS

REFRIGERANTS

SODIUM COOLING

## COOLERS

1504 3303

RT AIR CONDITIONING

AIR CONDITIONING EQUIPMENT

AIR COOLING

COMPRESSORS

COOLANTS

#COOLING

COOLING SYSTEMS

REFRIGERATING

REFRIGERATING MACHINERY

REFRIGERATORS

## #COOLING

2003 3303 3407

UP CHILLING

HEAT DISSIPATION

HEAT DISSIPATION CHILLING

NT AIR COOLING

EVAPORATIVE COOLING

FILM COOLING

GAS COOLING

LIQUID COOLING

PRECOOLING

QUENCHING (COOLING)

RADIANT COOLING

REGENERATIVE COOLING

SODIUM COOLING

SUPERCOOLING

SURFACE COOLING

SWEAT COOLING

THERMOELECTRIC COOLING

THERMOMAGNETIC COOLING

RT ABLATION

ABLATIVE MATERIALS

AIR CONDITIONING

BATHING

CONDENSING

CONTRACTION

# NASA THESAURUS (ALPHABETICAL LISTING)

COOLANTS  
COOLERS  
COOLING SYSTEMS  
CRYOGENICS  
ENGINE COOLANTS  
FILM CONDENSATION  
FREEZING  
FREON (TRADEMARK)  
HEAT EXCHANGERS  
HEAT RADIATORS  
HEAT SHIELDING  
HEAT TRANSFER  
#HEATING  
HILSCH TUBES  
JACKETS  
LOW TEMPERATURE  
MELTING  
REFRIGERATING  
SPACECRAFT RADIATORS  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
THERMAL CYCLING TESTS  
THERMAL SHOCK  
THERMAL STRESSES  
TRANSPIRATION  
VENTILATION  
VENTILATION FANS  
VENTING  
WETTING  
COOLING FINS  
1504 2806 3303  
BT FINS  
RT CONDENSERS (LIQUIFIERS)  
CONVECTIVE HEAT TRANSFER  
COOLING SYSTEMS  
FINNED BODIES  
HEAT EXCHANGERS  
HEAT RADIATORS  
RADIATIVE HEAT TRANSFER  
COOLING SYSTEMS  
0202 0504 1504 2801 2805 2808 3303  
RT ABSORBERS (EQUIPMENT)  
AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
AIR COOLING  
AIR FILTERS  
BLOWERS  
CLOSED CYCLES  
CONDENSERS (LIQUIFIERS)  
COOLANTS  
COOLERS  
#COOLING  
COOLING FINS  
DEHUMIDIFICATION  
ENGINE COOLANTS  
ETTINGSHAUSEN EFFECT  
EVAPORATIVE COOLING  
EVAPORATORS  
EXHAUST SYSTEMS  
FREON (TRADEMARK)  
HEAT EXCHANGERS  
HEAT PUMPS  
HEAT RADIATORS  
HEAT SINKS  
#INTAKE SYSTEMS  
LIQUID COOLING  
LUBRICATION SYSTEMS  
REFRIGERANTS  
REFRIGERATING  
REFRIGERATING MACHINERY  
REGISTERS (AIR CIRCULATION)  
SPACECRAFT RADIATORS  
SYSTEMS  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
TRANSPIRATION  
VENTILATION  
VENTILATION FANS  
VENTS  
COOMB TEST  
0403 0405  
BT PHYSIOLOGICAL TESTS  
RT HEMATOLOGY  
COOPERATION  
3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT INTERNATIONAL COOPERATION  
COORDINATE GEOMETRY LANGUAGE  
USE COGO (PROGRAMMING LANGUAGE)

COORDINATE SYSTEMS  
USE #COORDINATES  
COORDINATE TRANSFORMATIONS  
1902  
BT #FUNCTIONS (MATHEMATICS)  
TRANSFORMATIONS (MATHEMATICS)  
RT CONFORMAL MAPPING  
INVARIANT IMBEDDINGS  
ISOTROPIC TURBULENCE  
JOUKOWSKI TRANSFORMATION  
LAMBERT SURFACE  
SCHWARZSCHILD METRIC  
THEODORSEN TRANSFORMATION  
#COORDINATES  
1303 1902 3405  
UF ABSCISSAS  
AXES (COORDINATES)  
COORDINATE SYSTEMS  
ORDINATES  
Y AXIS  
Z AXIS  
NT ASTRONOMICAL COORDINATES  
CARTESIAN COORDINATES  
GEOCENTRIC COORDINATES  
GEODETTIC COORDINATES  
HYLLERAAS COORDINATES  
HYPERBOLIC COORDINATES  
INERTIAL COORDINATES  
LAGRANGE COORDINATES  
PLANETOCENTRIC COORDINATES  
POLAR COORDINATES  
RT #ALGEBRA  
ANALYTIC GEOMETRY  
#AXES (REFERENCE LINES)  
CELESTIAL REFERENCE SYSTEMS  
EARTH AXIS  
EQUATORS  
EUCLIDEAN GEOMETRY  
FUJITA METHOD  
GEOMAGNETIC LATITUDE  
#GEOMETRY  
GRIDS  
HALF PLANES  
HALF SPACES  
LATITUDE  
LONGITUDE  
MANIFOLDS (MATHEMATICS)  
#MAPS  
ORIGINS  
POSITION (LOCATION)  
REFERENCE SYSTEMS  
COORDINATION  
3406 3407  
UF SHARING  
RT CONTINUITY  
CORRELATION  
#INTERFACES  
SEQUENCING  
TIME SHARING  
COORDINATION POLYMERS  
1808 1810  
RT POLYMERS  
COPILOTS  
USE AIRCRAFT PILOTS  
COPLANARITY  
1902  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
#GEOMETRY  
REAL VARIABLES  
VECTOR ANALYSIS  
COPOLYMERIZATION  
0602 1810  
BT #CHEMICAL REACTIONS  
POLYMERIZATION  
RT DIMERIZATION  
COPOLYMERS  
1808 1810  
RT KEL-F  
VINYL COPOLYMERS  
COPPER  
1703  
NT COPPER ISOTOPES  
BT #CHEMICAL ELEMENTS  
RT AMMINES  
COPPER ALLOYS  
1701 1704  
NT BRASSES  
BRONZES  
MANGANIN (TRADEMARK)  
BT #ALLOYS  
RT BEARING ALLOYS

## CORE SAMPLING

COPPER CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
#COPPER COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#COPPER COMPOUNDS  
0603 1804  
NT COPPER CHLORIDES  
COPPER FLUORIDES  
COPPER OXIDES  
COPPER SELENIDES  
COPPER SULFIDES  
ENARGITE  
RT GROUP 1B COMPOUNDS  
METAL COMPOUNDS  
COPPER FLUORIDES  
0603 1804  
BT #COPPER COMPOUNDS  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
COPPER ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
COPPER  
ISOTOPES  
#METALS  
RADIOACTIVE ISOTOPES  
COPPER OXIDES  
0603 1804  
BT #CHALCOGENIDES  
#COPPER COMPOUNDS  
METAL OXIDES  
OXIDES  
COPPER SELENIDES  
1804  
BT #CHALCOGENIDES  
#COPPER COMPOUNDS  
SELENIDES  
#SELENIUM COMPOUNDS  
COPPER SULFIDES  
0603 1804  
NT ENARGITE  
BT #CHALCOGENIDES  
#COPPER COMPOUNDS  
INORGANIC SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
CORAL REEFS  
1305 1306  
RT COASTS  
#ISLANDS  
CORDAGE  
0202 0208 0303 0404 0702 0904 1502  
RT CABLES (ROPES)  
CONNECTORS  
#FIBERS  
FILAMENTS  
STRANDS  
STRINGS  
#WIRE  
YARNS  
CORDIERITE  
1806 2601  
BT #ALUMINUM COMPOUNDS  
#IRON COMPOUNDS  
#MAGNESIUM COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
CORDITE  
USE COLLOIDAL PROPELLANTS  
DOUBLE BASE PROPELLANTS  
CORE FLOW  
0101 0102 1202 2502  
BT #FLUID FLOW  
RT FLOW GEOMETRY  
MAGNETOHYDRODYNAMIC FLOW  
ONE DIMENSIONAL FLOW  
#PLASMAS (PHYSICS)  
SHEAR FLOW  
CORE SAMPLING  
1306 1310 1505  
BT SAMPLING  
RT CORES  
DEPTH MEASUREMENT  
DRILLING

## CORE STORAGE

EARTH CRUST  
HYDROGEOLOGY  
MINES (EXCAVATIONS)  
OCEAN BOTTOM  
OCEAN CURRENTS  
OCEANOGRAPHY  
SALINITY  
SAMPLERS

CORE STORAGE  
0801  
UF MACHINE STORAGE  
MEMORY STORAGE UNITS  
BT #COMPUTER STORAGE DEVICES  
MAGNETIC STORAGE  
RANDOM ACCESS MEMORY  
RT BUFFER STORAGE  
DATA STORAGE  
MAGNETIC DISKS  
MAGNETIC DRUMS  
STORAGE

CORES  
0801 0903 1504 1704 1805 2203  
NT EARTH CORE  
HONEYCOMB CORES  
LUNAR CORE  
MAGNETIC CORES  
REACTOR CORES  
RT CELLS  
CORE SAMPLING  
MANDRELS  
MOLDING MATERIALS

CORIOLIS EFFECT  
0401 0408 2003  
RT DISORIENTATION  
EFFECTS  
#METEOROLOGY  
ROTATING ENVIRONMENTS  
ROTATION  
VESTIBULAR TESTS

CORK (MATERIALS)  
0409 1805  
BT WOOD  
RT ORGANIC MATERIALS  
THERMAL INSULATION

CORNEA  
0404  
BT #ANATOMY  
EYE (ANATOMY)  
SENSE ORGANS  
RT VISION

CORNERS  
0101 0702 0710 0901 3203  
RT ANGLES (GEOMETRY)  
ANTENNAS  
#JOINTS (JUNCTIONS)  
SHAPES

CORONA BOREALIS CONSTELLATION  
3001  
BT CONSTELLATIONS

CORONA DISCHARGES  
USE ELECTRIC CORONA

CORONAGRAPHS  
1412  
RT ASTRONOMICAL PHOTOGRAPHY  
ASTRONOMICAL TELESCOPES  
SOLAR OBSERVATORIES  
SPECTROHELIOGRAPHS

CORONARY CIRCULATION  
0404 0405 0408  
BT BLOOD CIRCULATION  
#CIRCULATION  
RT HEART

CORONAS  
2304 2902 3002  
NT ELECTRIC CORONA  
SOLAR CORONA  
RT ELECTRIC ARCS  
ELECTRIC DISCHARGES  
HALOS  
#IONIZATION  
SOLAR SPECTRA

CORPORAL MISSILE  
3101 3401  
BT #MISSILES  
SURFACE TO SURFACE MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES

CORPUSCLES  
0404 0406  
BT #ANATOMY  
CARDIOVASCULAR SYSTEM  
#CELLS (BIOLOGY)  
RT ANEMIAS

BLOOD PLASMA  
ERYTHROCYTES  
HEMOGLOBIN  
LYMPH  
LYMPHOCYTES

CORPUSCULAR RADIATION  
2306 2402 2403 2901 2902 2903  
(NONELECTROMAGNETIC RADIATION  
CONSISTING OF ENERGETIC CHARGED OR  
NEUTRAL PARTICLES)  
UF PENETRATING PARTICLES  
NT BETA PARTICLES  
CYCLOTRON RADIATION  
ELECTRON BEAMS  
ELECTRON PRECIPITATION  
ELECTRON RADIATION  
ION CYCLOTRON RADIATION  
PRIMARY COSMIC RAYS  
SOLAR CORPUSCULAR RADIATION  
SOLAR COSMIC RAYS  
SOLAR PROTONS  
BT #PARTICLES  
RT ALPHA PARTICLES  
#ATMOSPHERIC RADIATION  
BACKGROUND RADIATION  
#BEAMS (RADIATION)  
CERENKOV RADIATION  
CHARGED PARTICLES  
#COHERENT RADIATION  
CONTINUOUS RADIATION  
COSMIC RAYS  
#ELECTROMAGNETIC RADIATION  
#EXTRATERRESTRIAL RADIATION  
FLUX (RATE)  
GALACTIC RADIATION  
INCIDENT RADIATION  
INTERSTELLAR RADIATION  
#IONIZING RADIATION  
#IONS  
MESONS  
NEUTRONS  
NUCLEAR PARTICLES  
NUCLEAR RADIATION  
NUCLEI (NUCLEAR PHYSICS)  
PARTICLE PRODUCTION  
PHONON BEAMS  
PULSED RADIATION  
RADIATION  
RADIATION DISTRIBUTION  
RADIATION PRESSURE  
RADIATION SOURCES  
RAYS  
REFLECTED WAVES  
REFRACTED WAVES  
SOLAR RADIATION  
STRATOSPHERE RADIATION

CORRECTION  
0703 1902 3406  
NT OPTICAL CORRECTION PROCEDURE  
RT ACCURACY  
#ADAPTATION  
ADJUSTING  
ALIGNMENT  
ERROR CORRECTING DEVICES  
ERRORS  
IMPROVEMENT  
INFORMATION THEORY  
PARITY  
REDUNDANCY  
REVISIONS

CORRELATION  
0703 1902 1905 3406  
UF CORRELATION FUNCTIONS  
NT ANGULAR CORRELATION  
AUTOCORRELATION  
CORRELATION COEFFICIENTS  
CORRELATION DETECTION  
CROSS CORRELATION  
DATA CORRELATION  
SIGNAL ANALYSIS  
STATISTICAL CORRELATION  
BT MULTIVARIATE STATISTICAL ANALYSIS  
RT BIVARIATE ANALYSIS  
COLLATING  
CONFIDENCE  
CONTINGENCY  
COORDINATION  
COVARIANCE  
ESTIMATORS  
EVALUATION  
FACTOR ANALYSIS  
#FORECASTING

## NASA THESAURUS (ALPHABETICAL LISTING)

INFORMATION THEORY  
LEAST SQUARES METHOD  
#OPTIMIZATION  
PROBABILITY THEORY  
QUALITY CONTROL  
REGRESSION ANALYSIS  
REGRESSION COEFFICIENTS  
SIGNIFICANCE  
#STATISTICAL ANALYSIS  
TIME SERIES ANALYSIS  
VALIDITY  
VARIABILITY  
VARIANCE (STATISTICS)  
CORRELATION COEFFICIENTS  
1902 1905  
BT #COEFFICIENTS  
CORRELATION  
#STATISTICAL ANALYSIS  
RT QUALITY CONTROL  
STATISTICAL CORRELATION  
CORRELATION DETECTION  
0702 0705 2301  
BT CORRELATION  
#DETECTION  
SIGNAL DETECTION  
RT DETECTORS  
ELECTROMAGNETIC WAVE FILTERS  
PHASE LOCK DEMODULATORS  
SIGNAL TO NOISE RATIOS  
CORRELATION FUNCTIONS  
USE CORRELATION  
CORRELATORS  
1902  
(DEVICES THAT DETECT WEAK SIGNALS IN  
NOISE BY PERFORMING AN ELECTRONIC  
OPERATION)  
UF SYNCHRONOUS DETECTORS  
BT SYNCHROSCOPES  
CORRIDORS  
1101 1102  
RT PASSAGEWAYS  
CORROSION  
1702  
UF METAL CORROSION  
NT CAVITATION CORROSION  
ELECTROCHEMICAL CORROSION  
FRETTING CORROSION  
FUEL CORROSION  
INTERGRANULAR CORROSION  
RUSTING  
SCALE (CORROSION)  
STRESS CORROSION  
RT CHEMICAL ATTACK  
#CHEMICAL REACTIONS  
#COATINGS  
CORROSION PREVENTION  
CORROSION RESISTANCE  
CORROSION TESTS  
#DAMAGE  
DEGRADATION  
#DEPOSITS  
DETERIORATION  
DISSOLVING  
DURABILITY  
#ELECTROCHEMISTRY  
ELECTROLYSIS  
EROSION  
ETCHANTS  
ETCHING  
FAILURE  
FINISHES  
FOULING  
GAS-METAL INTERACTIONS  
HUMIDITY  
IMPINGEMENT  
INCOMPATIBILITY  
METAL COATINGS  
METAL-WATER REACTIONS  
METALLURGY  
OXIDATION  
PASSIVITY  
PITTING  
PROTECTIVE COATINGS  
SALT SPRAY TESTS  
#SURFACE PROPERTIES  
WEAR  
WEATHERING  
CORROSION PREVENTION  
1701 1702 1704 1802  
BT PREVENTION  
#PROTECTION  
RT AERATION

# NASA THESAURUS (ALPHABETICAL LISTING)

ANTIOXIDANTS  
 CHEMICAL ATTACK  
 CLEANING  
 COATING  
 #COATINGS  
 CORROSION  
 CORROSION RESISTANCE  
 DESENSITIZING  
 FILMS  
 FUEL TANKS  
 INHIBITION  
 INHIBITORS  
 METAL COATINGS  
 NICKEL COATINGS  
 PACKAGING  
 PASSIVITY  
 PRESERVING  
 PROPELLANT ADDITIVES  
 SENSITIZING  
 SILICONIZING  
 SURFACE FINISHING  
 WATER TREATMENT  
 WEATHERPROOFING  
 CORROSION RESISTANCE  
 1701 1702 1704 1802  
 NT OXIDATION RESISTANCE  
 RT CHEMICAL ATTACK  
 #CHEMICAL TESTS  
 CORROSION  
 CORROSION PREVENTION  
 CORROSION TESTS  
 PASSIVITY  
 PITTING  
 RESISTANCE  
 RUSTING  
 SALT SPRAY TESTS  
 SILICONIZING  
 SURFACE FINISHING  
 CORROSION TESTS  
 1702 1704 1802  
 NT SALT SPRAY TESTS  
 BT #ENVIRONMENTAL TESTS  
 RT CHEMICAL ATTACK  
 CORROSION  
 CORROSION RESISTANCE  
 DESTRUCTIVE TESTS  
 FUEL TESTS  
 MATERIALS TESTS  
 PITTING  
 PROPELLANT TESTS  
 STABILITY TESTS  
 UNDERWATER TESTS  
 WEATHERING  
 CORRUGATED PLATES  
 3202  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT CORRUGATING  
 REINFORCED PLATES  
 CORRUGATED SHELLS  
 3202  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT ANISOTROPIC SHELLS  
 CORRUGATING  
 REINFORCED SHELLS  
 CORRUGATING  
 3203  
 RT CORRUGATED PLATES  
 CORRUGATED SHELLS  
 #DEFORMATION  
 GROOVES  
 PLATES  
 RIDGES  
 WAVES  
 CORSAIR AIRCRAFT  
 USE A-7 AIRCRAFT  
 CORTEXES  
 0402 0404 0409  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CEREBRAL CORTEX  
 CORTEXES (BOTANY)  
 CORTEXES (BOTANY)  
 0404 0409  
 RT CORTEXES  
 #PLANTS (BOTANY)  
 CORTI ORGAN  
 0404  
 BT #ANATOMY  
 EAR  
 SENSE ORGANS

RT COCHLEA  
 CORTICOSTEROIDS  
 0403 0404  
 NT ALDOSTERONE  
 CORTISONE  
 HYDROXYCORTICOSTEROID  
 BT HORMONES  
 #STEROIDS  
 RT ADRENAL METABOLISM  
 ENDOCRINE SECRETIONS  
 CORTISONE  
 0403 0404 0405 0408  
 BT CORTICOSTEROIDS  
 #DRUGS  
 #STEROIDS  
 RT ADRENAL METABOLISM  
 CORUNDUM  
 USE ALUMINUM OXIDES  
 CORVUS MISSILE  
 3101 3401  
 BT #MISSILES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 COSINE  
 USE TRIGONOMETRIC FUNCTIONS  
 COSINE SERIES  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 DIFFERENTIAL EQUATIONS  
 #FUNCTIONS (MATHEMATICS)  
 PERIODIC FUNCTIONS  
 REAL VARIABLES  
 SERIES (MATHEMATICS)  
 TRANSCENDENTAL FUNCTIONS  
 TRIGONOMETRIC FUNCTIONS  
 COSMIC DUST  
 1308 3001 3003 3005 3009  
 NT INTERPLANETARY DUST  
 METEOROID DUST CLOUDS  
 ZODIACAL DUST  
 BT #DUST  
 RT INTERGALACTIC MEDIA  
 INTERSTELLAR MATTER  
 METEORIDS  
 MICROMETEORIDS  
 SPACE DEBRIS  
 TERRESTRIAL DUST BELT  
 VENUS FLY TRAP ROCKET VEHICLE  
 COSMIC GASES  
 3001 3003 3009  
 NT INTERPLANETARY GAS  
 INTERSTELLAR GAS  
 BT #EXTRATERRESTRIAL MATTER  
 #GASES  
 BAREFIED GASES  
 RT COSMIC PLASMA  
 ELECTRON GAS  
 INTERGALACTIC MEDIA  
 IONIZED GASES  
 COSMIC NOISE  
 0705 2402 2901  
 BT BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 ELECTROMAGNETIC NOISE  
 RADIO FREQUENCY INTERFERENCE  
 RT BACKGROUND NOISE  
 BACKGROUND RADIATION  
 GALACTIC RADIATION  
 GALACTIC RADIO WAVES  
 INTERSTELLAR RADIATION  
 MICROWAVES  
 NOISE STORMS  
 SOLAR RADIATION  
 SOLAR RADIO EMISSION  
 COSMIC PLASMA  
 2501 3001 3003 3009  
 BT #EXTRATERRESTRIAL MATTER  
 #PLASMAS (PHYSICS)  
 RT COSMIC GASES  
 COSMIC RAYS  
 INTERGALACTIC MEDIA  
 INTERPLANETARY GAS  
 #PARTICLES  
 PLASMA CLOUDS  
 PLASMAPAUSE  
 RELATIVISTIC PLASMAS  
 SOLAR WIND  
 STELLAR WINDS  
 COSMIC RADIATION  
 USE COSMIC RAYS  
 COSMIC RADIO WAVES  
 USE EXTRATERRESTRIAL RADIO WAVES

# COSMOS 1 SATELLITE

COSMIC RAY ALBEDO  
 2402 2403 2901 2902  
 BT ALBEDO  
 RT ABSORPTANCE  
 ABSORPTION  
 ATMOSPHERIC ATTENUATION  
 EARTH ALBEDO  
 PRIMARY COSMIC RAYS  
 REFLECTANCE  
 SECONDARY COSMIC RAYS  
 COSMIC RAY SHOWERS  
 0710 2402 2403 2901 2902  
 UP MOLIERE FORMULA  
 BT COSMIC RAYS  
 RT #IONIZING RADIATION  
 AUGER EFFECT  
 CASCADES  
 ELECTRON PHOTON CASCADES  
 SECONDARY COSMIC RAYS  
 SHELVES  
 SHOWERS  
 COSMIC RAYS  
 0710 2402 2403 2901 2902  
 UP COSMIC RADIATION  
 NT COSMIC RAY SHOWERS  
 PRIMARY COSMIC RAYS  
 SECONDARY COSMIC RAYS  
 SOLAR COSMIC RAYS  
 BT #IONIZING RADIATION  
 RT AEROSPACE ENVIRONMENTS  
 ALBEDO  
 ALPHA PARTICLES  
 CERENKOV RADIATION  
 CORPUSCULAR RADIATION  
 COSMIC PLASMA  
 DEUTERONS  
 #ELECTROMAGNETIC RADIATION  
 ELECTROMS  
 #EXTRATERRESTRIAL RADIATION  
 FORBUSH DECREASES  
 GALACTIC RADIATION  
 GAMMA RAYS  
 INTERSTELLAR RADIATION  
 ION DENSITY (CONCENTRATION)  
 MESONS  
 NEUTRONS  
 NUCLEAR PARTICLES  
 NUCLEI (NUCLEAR PHYSICS)  
 PHOTONS  
 PROTONS  
 RADIATION  
 RADIATION BELTS  
 RADIATIVE TRANSFER  
 SOLAR RADIATION  
 STELLAR RADIATION  
 VLF EMISSION RECORDERS  
 X RAYS  
 COSMOGONY  
 USE COSMOLOGY  
 COSMOLOGY  
 3003 3009  
 UP COSMOGONY  
 RT ASTRONOMICAL MODELS  
 ASTROPHYSICS  
 EXISTENCE  
 GALACTIC EVOLUTION  
 MASS DISTRIBUTION  
 PLANETARY EVOLUTION  
 RED SHIFT  
 STAR DISTRIBUTION  
 STELLAR EVOLUTION  
 UNIVERSE  
 COSMONAUTS  
 0502 3104  
 BT FLYING PERSONNEL  
 #PERSONNEL  
 RT ASTRONAUTICS  
 ASTRONAUTS  
 CREWS  
 PILOTS (PERSONNEL)  
 SPACECRAFT ENVIRONMENTS  
 COSMOS  
 3003 3107  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COSMOS SATELLITES  
 UNIVERSE  
 COSMOS 1 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 COSMOS SATELLITES

## COSMOS 2 SATELLITE

EARTH SATELLITES  
#SATELLITES  
COSMOS 2 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 3 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 4 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 5 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 6 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 7 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 8 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 11 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 12 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 14 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 15 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 17 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 41 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 53 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES

## COSMOS 54 SATELLITE

3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 55 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 71 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 110 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 137 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 144 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
COSMOS 149 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 166 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 186 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 188 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 206 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 213 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 224 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS 225 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
COSMOS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
COSMOS SATELLITES  
3107  
BT COSMOS 1 SATELLITE  
COSMOS 2 SATELLITE  
COSMOS 3 SATELLITE  
COSMOS 4 SATELLITE  
COSMOS 5 SATELLITE

## NASA THESAURUS (ALPHABETICAL LISTING)

COSMOS 6 SATELLITE  
COSMOS 7 SATELLITE  
COSMOS 8 SATELLITE  
COSMOS 11 SATELLITE  
COSMOS 12 SATELLITE  
COSMOS 14 SATELLITE  
COSMOS 15 SATELLITE  
COSMOS 17 SATELLITE  
COSMOS 41 SATELLITE  
COSMOS 44 SATELLITE  
COSMOS 53 SATELLITE  
COSMOS 54 SATELLITE  
COSMOS 55 SATELLITE  
COSMOS 71 SATELLITE  
COSMOS 110 SATELLITE  
COSMOS 137 SATELLITE  
COSMOS 144 SATELLITE  
COSMOS 149 SATELLITE  
COSMOS 166 SATELLITE  
COSMOS 186 SATELLITE  
COSMOS 188 SATELLITE  
COSMOS 206 SATELLITE  
COSMOS 213 SATELLITE  
COSMOS 224 SATELLITE  
COSMOS 225 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT COSMOS  
COSPAR (COMMITTEE)  
USE COMMITTEE ON SPACE RESEARCH  
COSSERAT SURFACES  
3203  
RT FLAT SURFACES  
SURFACE GEOMETRY  
#SURFACE PROPERTIES  
SURFACES  
COST ANALYSIS  
3402  
RT ANALYZING  
BUDGETING  
COMPARISON  
COST ESTIMATES  
COSTS  
ECONOMIC ANALYSIS  
FINANCIAL MANAGEMENT  
#MANAGEMENT  
MANAGEMENT ANALYSIS  
MANAGEMENT PLANNING  
VALUE ENGINEERING  
WAGE SURVEYS  
COST EFFECTIVENESS  
3406  
BT EFFECTIVENESS  
RT ALLOCATIONS  
BUDGETING  
COST ESTIMATES  
COST ANALYSIS  
3401 3402 3406 3409  
BT ESTIMATES  
RT AIRPLANE PRODUCTION COSTS  
APPROPRIATIONS  
BUDGETING  
COST ANALYSIS  
COST EFFECTIVENESS  
COSTS  
ECONOMIC ANALYSIS  
ECONOMY  
ESTIMATORS  
FEDERAL BUDGETS  
FINANCIAL MANAGEMENT  
#MANAGEMENT  
VALUE ENGINEERING  
WAGE SURVEYS  
COST INCENTIVES  
3402 3404 3406  
RT COST REDUCTION  
#EFFICIENCY  
INCENTIVE TECHNIQUES  
#MANAGEMENT  
VALUE ENGINEERING  
COST REDUCTION  
3402 3404 3406  
RT COST INCENTIVES  
#EFFICIENCY  
INCENTIVE TECHNIQUES  
#MANAGEMENT  
MANAGEMENT METHODS  
MANAGEMENT PLANNING  
VALUE ENGINEERING  
WAGE SURVEYS

# NASA THESAURUS (ALPHABETICAL LISTING)

COSTA RICA  
1305  
RT NATIONS  
COSTS  
3402 3404 3406  
NT AIRCRAFT PRODUCTION  
AIRPLANE PRODUCTION COSTS  
FREIGHT COSTS  
LOW COST  
RT COMMERCE  
COST ANALYSIS  
COST ESTIMATES  
ECONOMIC ANALYSIS  
ECONOMIC FACTORS  
ECONOMICS  
#EFFICIENCY  
ESTIMATING  
EVALUATION  
FINANCIAL MANAGEMENT  
REVENUE  
TASK COMPLEXITY  
TASKS  
VALUE  
COTTON FIBERS  
0409 1811  
BT #CLOTHING  
#FIBERS  
TEXTILES  
RT ORGANIC MATERIALS  
COUCHES  
0401 0408 0506 3104  
RT BEDS  
CUSHIONS  
HARNESSES  
PILLOWS  
SEATS  
SPACECRAFT ENVIRONMENTS  
COUETTE FLOW  
1202 1203  
BT #FLUID FLOW  
STEADY FLOW  
TWO DIMENSIONAL FLOW  
VISCOUS FLOW  
RT ANNULAR FLOW  
AXISYMMETRIC FLOW  
HARTMANN FLOW  
ROTATING CYLINDERS  
COUGAR AIRCRAFT  
USE P-9 AIRCRAFT  
COUGH  
0405 0408  
BT #REFLEXES  
RESPIRATORY REFLEXES  
SIGNS AND SYMPTOMS  
RT EXPELLANTS  
COULOMB COLLISIONS  
2304 2403  
BT COLLISIONS  
RT CHARGED PARTICLES  
COULOMB POTENTIAL  
1001 2304 2403  
BT ELECTRIC POTENTIAL  
#POTENTIAL ENERGY  
CHARGED PARTICLES  
COULOMETRY  
ELECTRIC FIELD STRENGTH  
ELECTRIC FIELDS  
POTENTIAL  
COULOMETERS  
0601 0604 0902 1406 2304  
BT #MEASURING INSTRUMENTS  
RT ANNETERS  
CHEMICAL ANALYSIS  
COULOMETRY  
ELECTRICAL MEASUREMENT  
#ELECTROCHEMISTRY  
ELECTRODEPOSITION  
ELECTROLYSIS  
TITRATION  
VOLTMMETERS  
COULOMETRY  
0601 0604 2304  
BT ELECTRICAL MEASUREMENT  
#ELECTROCHEMISTRY  
ELECTROLYSIS  
RT COULOMB POTENTIAL  
COULOMETERS  
ELECTRICAL MEASUREMENT  
COUNTDOWN  
3102  
BT PREFLIGHT OPERATIONS  
SCHEDULES

RT CHECKOUT  
#LAUNCHING  
PRELAUNCH PROBLEMS  
PRELAUNCH TESTS  
SPACECRAFT LAUNCHING  
WINDOWS (INTERVALS)  
COUNTERBALANCES  
0902 1504  
RT AIRCRAFT STABILITY  
BALLAST (MASS)  
DYNAMIC STABILITY  
MASS DISTRIBUTION  
SPACECRAFT STABILITY  
STATIC STABILITY  
COUNTERFLOW  
1202  
BT #FLUID FLOW  
RT AXIAL FLOW  
HEAT EXCHANGERS  
HEAT TRANSFER  
TURBULENT DIFFUSION  
TURBULENT FLOW  
VORTICES  
#COUNTERMEASURES  
0702 3401  
NT ANTIRADAR COATINGS  
BALLISTIC MISSILE DECOYS  
CHAFF  
ELECTRONIC COUNTERMEASURES  
JAMMING  
REENTRY DECOYS  
RT BLUE GOOSE MISSILE  
DECOYS  
#PROTECTION  
QUAIL MISSILE  
RADAR ABSORBERS  
TORPEDOES  
COUNTERS  
0801 0905  
UP DEKATONS  
GAS DISCHARGE COUNTERS  
PULSE RECORDERS  
QUANTIZER  
NT CERENKOV COUNTERS  
ELECTRON COUNTERS  
GEIGER COUNTERS  
NEUTRON COUNTERS  
NEUTRON SPECTROMETERS  
PARTICLE TELESCOPES  
PROPORTIONAL COUNTERS  
QUANTUM COUNTERS  
RADIATION COUNTERS  
SCINTILLATION COUNTERS  
SPARK CHAMBERS  
BT #MEASURING INSTRUMENTS  
RT ACCUMULATORS (COMPUTERS)  
#COMPUTER COMPONENTS  
COUNTING  
COUNTING CIRCUITS  
DATA RECORDERS  
IONIZATION CHAMBERS  
MONITORS  
#RECORDING INSTRUMENTS  
COUNTERSINKING  
1504  
RT GRINDING (MATERIAL REMOVAL)  
METAL CUTTING  
COUNTING  
0703 0804 1002 1902 3407  
RT COUNTERS  
DATA ACQUISITION  
ENUMERATION  
ESTIMATING  
MEASUREMENT  
NUMBERS  
OBSERVATION  
REPETITION  
SAMPLING  
COUNTING CIRCUITS  
0902  
NT SCALERS  
BT #CIRCUITS  
RT COUNTERS  
LOGIC CIRCUITS  
COUNTING RATE COMPUTERS  
0801 0802  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
COUPLED MODES  
0710 2403 2404  
BT #NODES  
RT CHEMICAL BONDS

## COURIER SATELLITE

COUPLES  
COUPLINGS  
CROSSLINKING  
POLYMERIZATION  
UNCOUPLED MODES  
#COUPLERS  
0904  
(EXCLUDES MECHANICAL DEVICE)  
NT ANTENNA COUPLERS  
COUPLING CIRCUITS  
DIPLEXERS  
BT ANTENNA COMPONENTS  
RT COUPLING  
COUPLINGS  
IMPEDANCE MATCHING  
YOKES  
COUPLES  
2308 2311  
BT COUPLING  
RT ANTENNA COUPLERS  
COUPLED MODES  
COUPLING CIRCUITS  
CROSS COUPLING  
DIPLEXERS  
OPTICAL COUPLING  
SPIN-SPIN COUPLING  
UNCOUPLED MODES  
YOKES  
COUPLING  
0603 0902 1001 1504 1507  
(FOR MECHANICAL DEVICES, USE COUPLINGS)  
NT COUPLES  
CROSS COUPLING  
GYROSCOPIC COUPLING  
MICROWAVE COUPLING  
OPTICAL COUPLING  
SPIN-SPIN COUPLING  
THERMODYNAMIC COUPLING  
RT ANTENNA COUPLERS  
CLEBSCH-GORDAN COEFFICIENTS  
#COUPLERS  
COUPLINGS  
DECOUPLING  
LINKAGES  
#MECHANICAL DRIVES  
RACAH COEFFICIENT  
WAVE INTERACTION  
COUPLING CIRCUITS  
0701 0702 0901 0902 0905  
BT ANTENNA COUPLERS  
#CIRCUITS  
#COUPLERS  
ENERGY TRANSFER  
RT COUPLES  
CROSS COUPLING  
IMPEDANCE MATCHING  
NETWORKS  
RC CIRCUITS  
RL CIRCUITS  
COUPLING COEFFICIENTS  
1902 2308 3203  
BT #COEFFICIENTS  
RT FORM FACTORS  
MAGNETIC INDUCTION  
TRANSFER FUNCTIONS  
COUPLINGS  
1504  
RT ANCHORS (FASTENERS)  
BOLTS  
CLIPS  
CLOSURES  
CONNECTORS  
COUPLED MODES  
#COUPLERS  
COUPLING  
#FASTENERS  
FITTINGS  
JOINING  
#JOINTS (JUNCTIONS)  
LINKAGES  
#MECHANICAL DRIVES  
PINS  
RIVETS  
SCREWS  
SLEEVES  
SPLINES  
TRAILERS  
UNIONS (CONNECTORS)  
COURIER AIRCRAFT  
USE U-10 AIRCRAFT  
COURIER SATELLITE  
0706 3107

## COURSES

BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT ADVENT PROJECT  
COURSES  
USE PATHS  
COVALENCE  
0601 0603 0604  
RT CHEMICAL BONDS  
COVALENT BONDS  
COVALENT BONDS  
0603  
BT CHEMICAL BONDS  
RT COVALENCE  
COVARIANCE  
1902 1903 1905  
BT MULTIVARIATE STATISTICAL ANALYSIS  
RT CORRELATION  
EXPERIMENTAL DESIGN  
FACTOR ANALYSIS  
ORTHOGONALITY  
QUALITY CONTROL  
REGRESSION ANALYSIS  
SIGNIFICANCE  
#STATISTICAL ANALYSIS  
VARIABILITY  
VARIANCE (STATISTICS)  
COVERALLS  
0508  
BT #CLOTHING  
RT FLIGHT CLOTHING  
PROTECTIVE CLOTHING  
COVERINGS  
0903 0904 1308 3401  
RT CAMOUFLAGE  
CAPS  
CASING  
CLOSURES  
#COATINGS  
ENCLOSURES  
ENVELOPES  
GUARDS (SHIELDS)  
HOUSINGS  
JACKETS  
MASKING  
PRESERVING  
SEALING  
#SHELLS (STRUCTURAL FORMS)  
SHROUDS  
SPHERICAL CAPS  
COVES  
USE BAYS (TOPOGRAPHIC FEATURES)  
COWELL METHOD  
USE NUMERICAL INTEGRATION  
COWLINGS  
1504 2804 2805  
BT HOUSINGS  
RT AIR INTAKES  
PAIRINGS  
NACELLES  
PODS (EXTERNAL STORES)  
PROTUBERANCES  
#SHELLS (STRUCTURAL FORMS)  
CRAB NEBULA  
3001  
BT #CELESTIAL BODIES  
NEBULAE  
RT SUPERNOVAE  
TAURUS CONSTELLATION  
CRABS  
0402  
BT #ANIMALS  
ARTHROPODS  
INVERTEBRATES  
CRACK FORMATION  
USE CRACK INITIATION  
CRACK INITIATION  
1701 1702 1704 3201 3203 3204  
UF CRACK FORMATION  
RT BRITTLENESS  
CRACK PROPAGATION  
CRACKS  
CRITICAL LOADING  
FRACTURE MECHANICS  
FRACTURE STRENGTH  
METAL FATIGUE  
METAL SURFACES  
MICROCRACKS  
STRESS CONCENTRATION  
SURFACE CRACKS  
SURFACE DEFECTS  
TOUGHNESS

CRACK PROPAGATION  
1701 1704 3201 3203 3204  
BT PROPAGATION (EXTENSION)  
RT BRITTLENESS  
CRACK INITIATION  
CRACKING (FRACTURING)  
CRACKS  
FATIGUE (MATERIALS)  
FRACTOGRAPHY  
FRACTURE MECHANICS  
FRACTURE STRENGTH  
FRACTURING  
GRIFFITH CRACK  
METAL FATIGUE  
PROPAGATION  
RESISTANCE  
SURFACE CRACKS  
CRACKING (FRACTURING)  
1704 3204  
RT BRITTLE MATERIALS  
BRITTLENESS  
CRACK PROPAGATION  
CRACKS  
DESTRUCTION  
FAILURE  
FATIGUE (MATERIALS)  
FRACTURING  
RUPTURING  
STRESS CONCENTRATION  
STRESS CORROSION  
STRUCTURAL FAILURE  
STRUCTURAL STRAIN  
TEMPERATURE INVERSIONS  
CRACKS  
1704 2601  
UF CREVICES  
NT MICROCRACKS  
SURFACE CRACKS  
RT CAVITIES  
CRACK INITIATION  
CRACK PROPAGATION  
CRACKING (FRACTURING)  
#DEFECTS  
FATIGUE (MATERIALS)  
FRACTURES (MATERIALS)  
INTERSTICES  
LEAKAGE  
#OPENINGS  
#STRESSES  
TEMPERATURE INVERSIONS  
CRAFT  
USE VEHICLES  
CRAMPS  
0404 0405 0408  
RT EPILEPSY  
MUSCULAR FUNCTION  
SEIZURES  
CRAMPTON TEST  
0404 0405 0501 1406  
BT PHYSIOLOGICAL TESTS  
RT BLOOD PRESSURE  
PHYSICAL FITNESS  
SUPINE POSITION  
CRANES  
1103 1502 3202  
(EXCLUDES BIRDS)  
NT GANTRY CRANES  
BT #HANDLING EQUIPMENT  
RT BOOMS (EQUIPMENT)  
CONVEYORS  
LIPTS  
LOGISTICS  
MATERIALS HANDLING  
TOWERS  
WINCHES  
CRANIUM  
0404  
NT INTRACRANIAL CAVITY  
BT #ANATOMY  
BONES  
HEAD (ANATOMY)  
MUSCULOSKELETAL SYSTEM  
SKULL  
RT INTERCRANIAL CIRCULATION  
CRANKS  
USE ECCENTRICS  
CRASH INJURIES  
0203  
BT #INJURIES  
RT ACCIDENTS  
BURNS (INJURIES)  
#HAZARDS

## NASA THESAURUS (ALPHABETICAL LISTING)

WHIPLASH INJURIES  
CRASH LANDING  
0203  
NT DITCHING (LANDING)  
BT AIRCRAFT LANDING  
#CRASHES  
#LANDING  
RT AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT SAFETY  
ARRESTING GEAR  
FLIGHT HAZARDS  
GLIDE LANDINGS  
HORIZONTAL SPACECRAFT LANDING  
LUNAR LANDING  
PILOT ERROR  
PLANETARY LANDING  
SKID LANDINGS  
SOFT LANDING  
SPACECRAFT LANDING  
WATER LANDING  
#CRASHES  
0203 2101  
NT CRASH LANDING  
DITCHING (LANDING)  
RT ACCIDENTS  
AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT SAFETY  
COLLISIONS  
ENCOUNTERS  
FLIGHT HAZARDS  
FLIGHT SAFETY  
HIGHWAYS  
MIDAIR COLLISIONS  
PILOT ERROR  
SAFETY  
CRATERING  
2202 3201 3302  
NT PROJECTILE CRATERING  
RT #CRATERS  
IMPACT DAMAGE  
METEORITE CRATERS  
METEORITIC DAMAGE  
NUCLEAR EXPLOSIONS  
#CRATERS  
3004 3005 3201 1306  
NT LUNAR CRATERS  
METEORITE CRATERS  
PTOLEMAEUS CRATER  
TYCHO CRATER  
RT CALDERAS  
CRATERING  
IMPACT DAMAGE  
CRAWLER TRACTORS  
1102 1104  
BT #SURFACE VEHICLES  
TRACTORS  
RT GROUND SUPPORT EQUIPMENT  
#HANDLING EQUIPMENT  
LUNAR SURFACE VEHICLES  
MANNED LUNAR SURFACE VEHICLES  
TRANSPORT VEHICLES  
VEHICLES  
CRAYONS  
3304  
RT MARKERS  
TEMPERATURE MEASUREMENT  
CRAZING  
USE SURFACE CRACKS  
CREATINE  
0403 0404  
BT #CRYSTALS  
RT JUICES  
CREATININE  
0403 0404  
RT #DISEASES  
URINE  
CREATION  
USE CREATIVITY  
CREATIVITY  
3406  
UF CREATION  
RT #EDUCATION  
MORALE  
CREEP ANALYSIS  
1701 1704 3203 3204  
RT ANALYZING  
CREEP DIAGRAMS  
CREEP TESTS  
STRESS ANALYSIS  
STRESS RELAXATION



# NASA THESAURUS (ALPHABETICAL LISTING)

#STRUCTURAL ANALYSIS  
 CREEP BUCKLING  
 3203 3204  
 BT BUCKLING  
 CREEP DIAGRAMS  
 3203 3204  
 BT DIAGRAMS  
 RT CREEP ANALYSIS  
 CREEP PROPERTIES  
 CREEP STRENGTH  
 CREEP TESTS  
 STRESS RELAXATION  
 STRESS-STRAIN-TIME RELATIONS  
 CREEP PROPERTIES  
 1704 2601 3203  
 NT SHEAR CREEP  
 STEADY STATE CREEP  
 TENSILE CREEP  
 BT #MECHANICAL PROPERTIES  
 RT ANELASTICITY  
 CREEP DIAGRAMS  
 CREEP STRENGTH  
 CREEP TESTS  
 #DEFORMATION  
 DIMENSIONAL STABILITY  
 DUCTILITY  
 FATIGUE (MATERIALS)  
 FLOW  
 PLASTIC DEFORMATION  
 PLASTIC FLOW  
 RESIDUAL STRESS  
 SHEAR FLOW  
 SHEAR PROPERTIES  
 STATIC DEFORMATION  
 STRESS RELAXATION  
 #STRESSES  
 STRUCTURAL FAILURE  
 TEMPERATURE INVERSIONS  
 CREEP RESISTANCE  
 USE CREEP STRENGTH  
 CREEP RUPTURE STRENGTH  
 3408  
 UP STRESS RUPTURE STRENGTH  
 BT #MECHANICAL PROPERTIES  
 RT CREEP STRENGTH  
 FRACTURE STRENGTH  
 CREEP STRENGTH  
 1701 1704 3203 3204 3408  
 UP CREEP RESISTANCE  
 BT #MECHANICAL PROPERTIES  
 RT CREEP DIAGRAMS  
 CREEP PROPERTIES  
 CREEP RUPTURE STRENGTH  
 RESISTANCE  
 CREEP TESTS  
 3203 3204  
 RT COMPRESSION TESTS  
 CREEP ANALYSIS  
 CREEP DIAGRAMS  
 CREEP PROPERTIES  
 FATIGUE TESTS  
 LOAD TESTS  
 PLASTIC DEFORMATION  
 STATIC TESTS  
 CREPE  
 1805 1811  
 BT FABRICS  
 CRESOLS  
 0403 1808  
 BT ALCOHOLS  
 #HYDROXYL COMPOUNDS  
 PHENOLS  
 CRESTATIONS  
 USE TRAVELING WAVE TUBES  
 CRESTS  
 USE WAVES  
 CREVASSES  
 1305 1306  
 NT GLACIERS  
 RT EARTH MOVEMENTS  
 GEOLOGICAL FAULTS  
 RECESSES  
 CREVICES  
 USE CRACKS  
 CREWS  
 0502 3406  
 BT #PERSONNEL  
 RT ASTRONAUTS  
 COSMONAUTS  
 PILOTS (PERSONNEL)  
 CRICKETS  
 0402

NT BEETLES  
 TRIBOLIA  
 BT #ANIMALS  
 ARTHROPODS  
 INSECTS  
 INVERTEBRATES  
 CRIMPING  
 USE FOLDING  
 CRITERIA  
 3406  
 RT EVALUATION  
 FIGURE OF MERIT  
 MEASURES  
 STANDARDS  
 CRITICAL EXPERIMENTS  
 2202 2405  
 RT CRITICAL MASS  
 EXPERIMENTATION  
 NUCLEAR FISSION  
 #NUCLEAR REACTIONS  
 CRITICAL FLICKER FUSION  
 0401 0408 0702 2308 2310  
 UP FLICKER FUSION FREQUENCY  
 BT #PERCEPTION  
 SENSORY PERCEPTION  
 VISUAL PERCEPTION  
 RT AFTERIMAGES  
 FLICKER  
 CRITICAL FLOW  
 1201 1202 1203 1204  
 BT #FLUID FLOW  
 RT CRITICAL VELOCITY  
 FLOW CHARACTERISTICS  
 GAS FLOW  
 LAMINAR FLOW  
 LIQUID FLOW  
 MULTIPHASE FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 SINGLE-PHASE FLOW  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 UNSTEADY FLOW  
 CRITICAL FREQUENCIES  
 0705 1302 2402 2901 2902 2903  
 BT #FREQUENCIES  
 RT LIGHT (VISIBLE RADIATION)  
 RESONANT FREQUENCIES  
 CRITICAL LOADING  
 3203 3303  
 (LIMITED TO FORCE LOADS)  
 UP CRITICAL STRESS  
 BT #STRESSES  
 RT AERODYNAMIC LOADS  
 CRACK INITIATION  
 DYNAMIC LOADS  
 PROPORTIONAL LIMIT  
 STATIC LOADS  
 CRITICAL MACH NUMBER  
 USE CRITICAL VELOCITY  
 MACH NUMBER  
 CRITICAL MASS  
 2202 2204 2405  
 BT #MASS  
 RT CRITICAL EXPERIMENTS  
 NUCLEAR FISSION  
 #NUCLEAR REACTIONS  
 SUBCRITICAL MASS  
 CRITICAL PATH METHOD  
 0802 3402 3406  
 BT NETWORK ANALYSIS  
 OPERATIONS RESEARCH  
 #RESEARCH  
 RT CONTROL  
 DYNAMIC PROGRAMMING  
 ESTIMATING  
 GERT  
 MANAGEMENT METHODS  
 METHODOLOGY  
 MISSION PLANNING  
 PATHS  
 PERT  
 PLANNING  
 PROGRAM TREND LINE ANALYSIS  
 PROGRAMMING (SCHEDULING)  
 PROJECT MANAGEMENT  
 SEQUENCING  
 SYSTEMS ENGINEERING

## CROPS

CRITICAL POINT  
 1902 2311 3304  
 BT #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT WATER PROBLEM  
 CRITICAL PRESSURE  
 2311 2808 3304  
 BT #PRESSURE  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT HIGH PRESSURE  
 LIQUID PHASES  
 SUPERCRITICAL PRESSURES  
 VAPOR PHASES  
 CRITICAL REYNOLDS NUMBER  
 USE CRITICAL VELOCITY  
 REYNOLDS NUMBER  
 CRITICAL SPEED  
 USE CRITICAL VELOCITY  
 CRITICAL STRESS  
 USE CRITICAL LOADING  
 CRITICAL TEMPERATURE  
 3304  
 BT #TEMPERATURE  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT #HEAT TREATMENT  
 NONCONDENSIBLE GASES  
 PHASE DIAGRAMS  
 #PHASE TRANSFORMATIONS  
 CRITICAL VELOCITY  
 0101 0201 1202  
 UP CRITICAL MACH NUMBER  
 CRITICAL REYNOLDS NUMBER  
 CRITICAL SPEED  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT CRITICAL FLOW  
 EXHAUST VELOCITY  
 RESONANT FREQUENCIES  
 TIP SPEED  
 CROCCO-LEE THEORY  
 1202  
 RT BOUNDARY LAYER SEPARATION  
 CONTINUITY EQUATION  
 GAS FLOW  
 INVISCID FLOW  
 MASS FLOW  
 MULTIPHASE FLOW  
 REATTACHED FLOW  
 SEPARATED FLOW  
 THEORIES  
 CROCCO METHOD  
 1202  
 RT AXISYMMETRIC FLOW  
 BOUNDARY LAYERS  
 COMPRESSIBLE FLOW  
 COMPRESSIBLE FLUIDS  
 ENTROPY  
 INVISCID FLOW  
 METHODOLOGY  
 SHOCK WAVE PROPAGATION  
 STEADY FLOW  
 VORTICITY  
 CROLOY  
 2204  
 BT #ALLOYS  
 IRON ALLOYS  
 STEELS  
 CROP GROWTH  
 0409 0411 0412 0505  
 BT #GROWTH  
 RT AGRICULTURE  
 CROP VIGOR  
 CROPS  
 EARTH RESOURCES  
 FARM CROPS  
 GERMINATION  
 PHOTOSYNTHESIS  
 #PLANTS (BOTANY)  
 CROP VIGOR  
 0404 0409  
 RT AGRICULTURE  
 CROP GROWTH  
 FARM CROPS  
 IRRIGATION  
 PHOTOTROPISM  
 #PLANTS (BOTANY)  
 VIABILITY  
 CROPS  
 0409 0411 0412 0505  
 (USE OF A MORE SPECIFIC TERM IS

## CROSS CORRELATION

RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

RT AGRICULTURE  
CROP GROWTH  
FARM CROPS

CROSS CORRELATION  
1902 1905  
BT CORRELATION  
RT AUTOCORRELATION  
DATA CORRELATION

CROSS COUPLING  
0702 0902  
BT COUPLING  
RT #COMMUNICATION THEORY  
COUPLES  
COUPLING CIRCUITS  
MICROWAVE COUPLING  
OPTICAL COUPLING  
RADIO FREQUENCY INTERFERENCE

CROSS FLOW  
0101  
RT #AERODYNAMIC CHARACTERISTICS  
FLOW  
FLOW CHARACTERISTICS  
FLOW GEOMETRY  
FLUID DYNAMICS  
#FLUID FLOW

CROSS RELAXATION  
1601 2310 2401 3407  
RT MASERS  
RELAXATION  
RUTILE  
SPIN-SPIN COUPLING

CROSS SECTIONS  
0101 1202 1308 2202 2401 2405 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ABSORPTION CROSS SECTIONS  
#AIRFOIL PROFILES  
AREA  
ATOMIC COLLISIONS  
COLLISION PARAMETERS  
#DISTRIBUTION (PROPERTY)  
DRAWINGS  
#GEOMETRY  
#GRADIENTS  
IONIZATION CROSS SECTIONS  
MEAN FREE PATH  
#PLANFORMS  
RADAR CROSS SECTIONS  
SCATTERING CROSS SECTIONS  
SHAPES  
STOPPING POWER  
SURVEYS  
TWO DIMENSIONAL BODIES

CROSSED FIELD AMPLIFIERS  
0905 1002  
BT #AMPLIFIERS  
RT CROSSED FIELDS  
#ELECTRON TUBES  
MAGNETRONS  
MICROWAVE AMPLIFIERS  
TRAVELING WAVE TUBES

CROSSED FIELD GUNS  
0905 1002  
RT ELECTRON GUNS  
GUNS  
PLASMA CONTROL  
PLASMA GUNS  
PLASMA JETS

CROSSED FIELDS  
1002 2304 2307  
RT CROSSED FIELD AMPLIFIERS  
ELECTRIC FIELDS  
FIELD THEORY (PHYSICS)  
#MAGNETIC FIELDS  
MAGNETRONS  
PLASMA CONTROL  
WAVEGUIDES

CROSSINGS  
3407  
NT CHIASMS  
RT BRIDGES (STRUCTURES)  
INTERSECTIONS  
PIPELINES  
RAMPS (STRUCTURES)

CROSSLINKING  
0404 0602 1810  
NT VOLCANIZING  
RT ADDITION RESINS  
COUPLED MODES

CURING  
JOINING

CROSSOVERS  
0404  
RT INTERSECTIONS

CROSSTALK  
0702 0705  
NT IONOSPHERIC CROSS MODULATION  
BT #ELECTROMAGNETIC INTERFERENCE  
RT #COMMUNICATING  
ELECTROMAGNETIC COMPATIBILITY  
INTERFERENCE  
TELEPHONY  
WAVE DIFFRACTION

CROWDING  
3407  
RT CONCENTRATION

CRUCIBLES  
0602 1502 1704  
RT CONTAINERS  
#HEATING EQUIPMENT

CRUCIFORM WINGS  
0104  
BT #AIRFOILS  
WINGS  
RT FIXED WINGS  
LOW ASPECT RATIO WINGS

CRUDE OIL  
1503 1808  
UP PETROLEUM  
BT EARTH RESOURCES  
OILS  
RT #DEPOSITS  
HYDROCARBON FUELS  
OIL EXPLORATION  
RESERVES  
WAXES

CRUISE MISSILES  
3101 3106 3401  
NT NAVAHO MISSILE  
BT #MISSILES  
SURFACE TO SURFACE MISSILES

CRUISING FLIGHT  
0201 2102 3009 3407  
RT COASTING FLIGHT  
FLIGHT  
HORIZONTAL FLIGHT

CRUSADER AIRCRAFT  
USE F-8 AIRCRAFT

CRUSHERS  
1504  
RT COMMINUTION  
CRUSHING  
DISINTEGRATION  
GRINDING MILLS  
IMPACTORS

CRUSHING  
1504  
BT COMMINUTION  
RT CRUSHERS  
DISINTEGRATION  
GRINDING (COMMINUTION)

#CRUSTS  
1306 1308  
NT EARTH CRUST  
LUNAR CRUST

CRYOTICLE PRINCIPLE  
2303  
RT CRYOPUMPING  
SPACECRAFT POWER SUPPLIES

CRYODEPOSITS  
2303  
BT #DEPOSITS  
RT #COATINGS  
CRYOGENIC STORAGE  
CRYOGENICS  
CRYOGENIC COMPUTER STORAGE  
0801 2303  
BT #COMPUTER STORAGE DEVICES  
RT CRYOGENIC STORAGE  
CRYOTRONS  
SUPERCONDUCTORS

CRYOGENIC EQUIPMENT  
1502 2303 3303 3404  
UP DEWAR SYSTEMS  
RT CRYOGENIC FLUID STORAGE  
CRYOGENIC FLUIDS  
CRYOGENICS  
EQUIPMENT  
REFRIGERATING  
REFRIGERATING MACHINERY

## NASA THESAURUS (ALPHABETICAL LISTING)

CRYOGENIC FLUID STORAGE  
1103 2303  
RT COLD SURFACES  
CRYOGENIC EQUIPMENT  
CRYOGENIC FLUIDS  
CRYOGENIC STORAGE  
EVAPORATIVE COOLING  
FUEL TANKS  
MULTILAYER INSULATION  
SPACE STORAGE  
STORAGE  
STORAGE TANKS  
THERMAL INSULATION

CRYOGENIC FLUIDS  
1202 1203 2303  
NT FERMI LIQUIDS  
FLOX  
LIQUID HELIUM  
LIQUID HYDROGEN  
LIQUID NITROGEN  
LIQUID OXYGEN  
SOLIDIFIED GASES  
BT #LIQUIDS  
RT CRYOGENIC EQUIPMENT  
CRYOGENIC FLUID STORAGE  
CRYOGENICS  
CRYOPUMPING  
FLUIDS  
ROCKET OXIDIZERS

CRYOGENIC GYROSCOPES  
1403 2303  
BT #GYROSCOPES

CRYOGENIC MAGNETS  
2303 2307  
BT #MAGNETS  
RT SUPERCONDUCTING MAGNETS

CRYOGENIC ROCKET PROPELLANTS  
2303 2701 2702 2804 2809 3302  
BT #FUELS  
LIQUID ROCKET PROPELLANTS  
#LIQUIDS  
#PROPELLANTS  
ROCKET PROPELLANTS  
RT CRYOGENICS  
ENDOTHERMIC FUELS  
GASEOUS ROCKET PROPELLANTS  
GELLED ROCKET PROPELLANTS  
HIGH ENERGY FUELS  
HIGH ENERGY PROPELLANTS  
HYBRID PROPELLANTS  
HYDROGEN FUELS  
HYPERGOLIC ROCKET PROPELLANTS  
LIQUEFIED GASES  
LIQUID HYDROGEN  
LIQUID OXYGEN  
RL-10 ENGINES  
SLUSH  
SPACE STORAGE  
STORABLE PROPELLANTS

CRYOGENIC STORAGE  
1103 2303 3305  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CRYODEPOSITS  
CRYOGENIC COMPUTER STORAGE  
CRYOGENIC FLUID STORAGE

CRYOGENICS  
2303  
RT COLD TRAPS  
#COOLING  
CRYODEPOSITS  
CRYOGENIC EQUIPMENT  
CRYOGENIC FLUIDS  
CRYOGENIC ROCKET PROPELLANTS  
CRYOPUMPING  
CRYOSAR  
CRYOSTATS  
CRYOTRONS  
FERMI LIQUIDS  
JOULE-THOMSON EFFECT  
LIQUEFIED GASES  
LOW TEMPERATURE  
LOW TEMPERATURE PHYSICS  
REFRIGERATING  
SOLID NITROGEN  
SOLIDIFIED GASES  
SUPERCONDUCTIVITY  
THERMOELECTRIC COOLING  
THERMOMAGNETIC COOLING

CRYOLITE  
1806 2601

## NASA THESAURUS (ALPHABETICAL LISTING)

## #CRYSTALS

BT #ALUMINUM COMPOUNDS  
FLUORIDES  
#FLUORINE COMPOUNDS  
FLUORO COMPOUNDS  
#HALOGEN COMPOUNDS  
#MINERALS  
#SODIUM COMPOUNDS  
RT ALUMINUM  
CRYOPUMPING  
0602 1501 2303  
RT CRYOCYCLE PRINCIPLE  
CRYOGENIC FLUIDS  
CRYOGENICS  
PUMPING  
VACUUM PUMPS  
CRYOSAR  
0905 0906  
BT AVALANCHE DIODES  
#DIODES  
#ELECTRONIC EQUIPMENT  
#RECTIFIERS  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
RT #COMPUTER STORAGE DEVICES  
CRYOGENICS  
CRYOSORPTION  
USE #SORPTION  
CRYOSTATS  
1408 2303 3303  
BT CONTROL EQUIPMENT  
RT #CONTROLLERS  
CRYOGENICS  
ELECTRIC SWITCHES  
HIGH TEMPERATURE TESTS  
LIQUID HELIUM  
LOW TEMPERATURE TESTS  
#REGULATORS  
TEMPERATURE CONTROL  
THERMOSTATS  
CRYOTRAPPING  
0602 2303  
BT TRAPPING  
RT COLD TRAPS  
CRYOTRONS  
0801 0902 0905 2303 2604  
BT ELECTRIC SWITCHES  
#ELECTRONIC EQUIPMENT  
SOLID STATE DEVICES  
#SWITCHES  
RT CRYOGENIC COMPUTER STORAGE  
CRYOGENICS  
SUPERCONDUCTIVITY  
SUPERCONDUCTORS  
CRYSTAL DEFECTS  
1704 2601  
UP LATTICE IMPERFECTIONS  
STACKING FAULTS  
NT CRYSTAL DISLOCATIONS  
EDGE DISLOCATIONS  
FRENKEL DEFECTS  
POINT DEFECTS  
SCREW DISLOCATIONS  
VACANCIES (CRYSTAL DEFECTS)  
BT #DEFECTS  
RT CRYSTAL GROWTH  
#CRYSTAL LATTICES  
CRYSTALLOGRAPHY  
HOLES (ELECTRON DEFICIENCIES)  
IMPURITIES  
INTERSTITIALS  
LATTICE VIBRATIONS  
MECHANICAL TWINNING  
ORDER-DISORDER TRANSFORMATIONS  
POLYGONIZATION  
STACKING FAULT ENERGY  
STACKS  
SURFACE DEFECTS  
TRAPPING  
TWINNING  
CRYSTAL DISLOCATIONS  
1704 2601  
NT EDGE DISLOCATIONS  
SCREW DISLOCATIONS  
CRYSTAL DEFECTS  
#DEFECTS  
#DISLOCATIONS (MATERIALS)  
RT FATIGUE (MATERIALS)  
GRAIN BOUNDARIES  
POINT DEFECTS  
SURFACE DEFECTS  
CRYSTAL FILTERS  
0705 0906 2301 2306 2402 2601

RT INTERMEDIATE FREQUENCY AMPLIFIERS  
CRYSTAL GROWTH  
0602 2601 2603  
NT CZOCHRALSKI METHOD  
EPITAXY  
HYDROTHERMAL CRYSTAL GROWTH  
TRAVELING SOLVENT METHOD  
VERNEUIL PROCESS  
BT #GROWTH  
RT BRAVAIS CRYSTALS  
CONTAINERLESS MELTS  
CRYSTAL DEFECTS  
CRYSTALLIZATION  
CRYSTALLOGRAPHY  
#CRYSTALS  
INOCULATION  
MECHANICAL TWINNING  
NUCLEATION  
POLYGONIZATION  
TWINNING  
VAPOR DEPOSITION  
#CRYSTAL LATTICES  
2601  
NT BODY CENTERED CUBIC LATTICES  
CLOSE PACKED LATTICES  
CUBIC LATTICES  
FACE CENTERED CUBIC LATTICES  
RT ATOMIC STRUCTURE  
BRAVAIS CRYSTALS  
BRILLOUIN ZONES  
CHEMICAL BONDS  
CRYSTAL DEFECTS  
CRYSTAL STRUCTURE  
CRYSTALLOGRAPHY  
#CRYSTALS  
EPITAXY  
#GEOMETRY  
HEXAGONAL CELLS  
IONIC CRYSTALS  
ISOMORPHISM  
KOSSEL PATTERN  
LATTICE PARAMETERS  
LATTICE VIBRATIONS  
LATTICES  
LAUE METHOD  
METAL CRYSTALS  
METALLOGRAPHY  
MOLECULAR CHAINS  
MOLECULAR STRUCTURE  
MOSSBAUER EFFECT  
ORDER-DISORDER TRANSFORMATIONS  
PARTICLE IN CELL TECHNIQUE  
PATTERSON MAP  
POLYMORPHISM  
SINGLE CRYSTALS  
ULTRAPURE METALS  
CRYSTAL OPTICS  
1411 1601 2306 2310 2601  
RT ABERRATION  
DIFFRACTION  
FIBER OPTICS  
OPTICS  
PHYSICAL OPTICS  
CRYSTAL OSCILLATORS  
0903 2601  
NT PIEZOELECTRIC CRYSTALS  
BT #CRYSTALS  
#OSCILLATORS  
RT #ELECTRICAL PROPERTIES  
FREQUENCY CONTROL  
FREQUENCY STABILITY  
#OSCILLATIONS  
PIEZOELECTRICITY  
CRYSTAL RECTIFIERS  
2601  
UP SILICON RECTIFIERS  
BT #DIODES  
#ELECTRONIC EQUIPMENT  
#RECTIFIERS  
SOLID STATE DEVICES  
RT SEMICONDUCTOR DEVICES  
CRYSTAL STRUCTURE  
1704 2601 2603  
(AGGLOMERATIONS OF CRYSTALS-- EXCLUDES  
CRYSTAL LATTICES)  
NT WIDMANSTATTEN STRUCTURE  
RT ABRISKOSOV THEORY  
ALLOTROPY  
#ANISOTROPY  
BRAVAIS CRYSTALS  
#CRYSTAL LATTICES  
CRYSTALLINITY

CRYSTALLITES  
#CRYSTALS  
EPITAXY  
INTERSTITIALS  
ISOMORPHISM  
ISOTROPY  
MECHANICAL TWINNING  
METAL CRYSTALS  
MICROSTRUCTURE  
ORDER-DISORDER TRANSFORMATIONS  
PACKING DENSITY  
PATTERSON MAP  
PHONONS  
POLYCRYSTALS  
POLYMORPHISM  
SPHERULITES  
STRUCTURES  
TWINNING  
CRYSTAL SURFACES  
0603 2601  
BT SOLID SURFACES  
RT METAL SURFACES  
SURFACE LAYERS  
SURFACES  
CRYSTALLINITY  
0603 1704 2601 3408  
UP AMORPHOUSNESS  
RT AMORPHOUS MATERIALS  
CRYSTAL STRUCTURE  
CRYSTALLITES  
1806 2601  
NT SPHERULITES  
BT #CRYSTALS  
RT CRYSTAL STRUCTURE  
MICROCRYSTALS  
#MINERALS  
ROSETTE SHAPES  
CRYSTALLIZATION  
0602 2601  
UP DEVITRIFICATION  
NT RECRYSTALLIZATION  
RT AGGLOMERATION  
CONCENTRATING  
CONTAINERLESS MELTS  
CRYSTAL GROWTH  
DENIMERALIZING  
FREEZING  
INOCULATION  
LIQUIDUS  
MATERIALS RECOVERY  
#MODULATION  
NUCLEATION  
#PHASE TRANSFORMATIONS  
PRECIPITATION (CHEMISTRY)  
PURIFICATION  
REFINING  
SEPARATION  
SETTLING  
SOLID STATE  
SOLIDIFICATION  
SUBLIMATION  
SUPERCOOLING  
SUPERSATURATION  
ZONE MELTING  
CRYSTALLOGRAPHY  
2601 2603  
RT BRAGG ANGLE  
CRYSTAL DEFECTS  
CRYSTAL GROWTH  
#CRYSTAL LATTICES  
#CRYSTALS  
DEBYE-SCHERER METHOD  
DIRECTIVITY  
ISOTROPY  
LATTICE PARAMETERS  
LAUE METHOD  
METALLOGRAPHY  
METALLURGY  
MICROBEAMS  
MICROSTRUCTURE  
MINERALOGY  
NEUTRON DIFFRACTION  
ORDER-DISORDER TRANSFORMATIONS  
ORIENTATION  
RADIOGRAPHY  
SOLID STATE PHYSICS  
X RAY ANALYSIS  
X RAY DIFFRACTION  
#CRYSTALS  
1704 2601 2603  
NT BICRYSTALS  
BOULES

## CSM

BRAVAIS CRYSTALS  
 CREATINE  
 CRYSTAL OSCILLATORS  
 CRYSTALLITES  
 DENDRITIC CRYSTALS  
 IONIC CRYSTALS  
 LIQUID CRYSTALS  
 METAL CRYSTALS  
 MICROCRYSTALS  
 MIXED CRYSTALS  
 PIEZOELECTRIC CRYSTALS  
 POLYCRYSTALS  
 QUARTZ CRYSTALS  
 SINGLE CRYSTALS  
 SPHERULITES  
 WHISKERS (SINGLE CRYSTALS)  
 RT #ANISOTROPY  
 BODY CENTERED CUBIC LATTICES  
 CONTAINERLESS MELTS  
 CRYSTAL GROWTH  
 #CRYSTAL LATTICES  
 CRYSTAL STRUCTURE  
 CRYSTALLOGRAPHY  
 FACE CENTERED CUBIC LATTICES  
 GRAINS  
 ISOTROPY  
 PACKING DENSITY  
 RUBY  
 SPHERULES  
 CSM  
 USE COMMAND SERVICE MODULES  
 CT-114 AIRCRAFT  
 USE CL-41 AIRCRAFT  
 CUBANE  
 1808  
 BT #HYDROCARBONS  
 CUBES (MATHEMATICS)  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYHEDRONS  
 RT BLOCKS  
 CUBIC EQUATIONS  
 1902  
 BT #ALGEBRA  
 #ANALYSIS (MATHEMATICS)  
 FIELD THEORY (ALGEBRA)  
 NONLINEAR EQUATIONS  
 REAL VARIABLES  
 RT EQUATIONS  
 POLYNOMIALS  
 CUBIC LATTICES  
 2601  
 RT BODY CENTERED CUBIC LATTICES  
 FACE CENTERED CUBIC LATTICES  
 BT #CRYSTAL LATTICES  
 CUES  
 0408 0502 1409  
 UP VISUAL CUES  
 CUFFS  
 0508  
 RT #CLOTHING  
 SEALS (STOPPERS)  
 CULTIVATION  
 0409  
 RT AMMONIA  
 AMMONIUM NITRATES  
 ASHES  
 CULTURE TECHNIQUES  
 FERTILIZERS  
 #SOILS  
 TISSUES (BIOLOGY)  
 CULTURE (SOCIAL SCIENCES)  
 0408 0410 3402 3403  
 RT ANTHROPOLOGY  
 ARTIFACTS  
 ESKIMOS  
 GOVERNMENTS  
 MINORITIES  
 POLITICS  
 RACE FACTORS  
 RACES  
 REGIMES  
 SOCIAL FACTORS  
 SOCIOLOGY  
 CULTURE TECHNIQUES  
 0404 0405  
 RT CULTIVATION  
 MICROBIOLOGY  
 CUMULATIVE DAMAGE  
 1505  
 BT #DAMAGE

RT COMPONENT RELIABILITY  
 #DEFECTS  
 DEGRADATION  
 DURABILITY  
 FAILURE  
 OPERATIONAL HAZARDS  
 RELIABILITY  
 STRUCTURAL RELIABILITY  
 WEAR TESTS  
 CUMULONIMBUS CLOUDS  
 1308 2001 2003  
 BT #CLOUDS  
 CLOUDS (METEOROLOGY)  
 RT CUMULUS CLOUDS  
 NIMBOSTRATUS CLOUDS  
 PRECIPITATION (METEOROLOGY)  
 THUNDERSTORMS  
 TORNADOES  
 CUMULUS CLOUDS  
 1308 2001 2003  
 BT #CLOUDS  
 CLOUDS (METEOROLOGY)  
 RT CUMULONIMBUS CLOUDS  
 STRATOCUMULUS CLOUDS  
 CUPOLAS  
 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DUMES (STRUCTURAL FORMS)  
 FURNACES  
 GUN TURRETS  
 CURARE  
 0403 0409 0412  
 BT #POISONS  
 RT ALKALOIDS  
 ANTICHOLINERGICS  
 POISONING  
 TOXICOLOGY  
 CURES  
 0403 0405  
 RT #DISEASES  
 #DRUGS  
 FIRST AID  
 HEALING  
 THERAPY  
 CURIE TEMPERATURE  
 2304 2305 2307  
 BT #MAGNETIC PROPERTIES  
 #TEMPERATURE  
 RT CURIE-WEISS LAW  
 DIAMAGNETISM  
 ELECTRETS  
 FERROELECTRICITY  
 FERROMAGNETISM  
 CURIE-WEISS LAW  
 2305 2307  
 RT CURIE TEMPERATURE  
 FERROMAGNETISM  
 MAGNETIC PERMEABILITY  
 PARAMAGNETISM  
 CURING  
 1704 1809 1810  
 RT AUTOCLAVING  
 CROSSLINKING  
 DEGRADATION  
 DRYING  
 FARM CROPS  
 PRESERVING  
 SETTING  
 VULCANIZING  
 WEATHERING  
 CURIUM  
 0603 1703 2406  
 RT CURIUM ISOTOPE  
 CURIUM 242  
 CURIUM 244  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPE  
 #METALS  
 NUCLIDES  
 RADIOACTIVE ISOTOPE  
 TRANSURANIUM ELEMENTS  
 CURIUM ISOTOPE  
 2406  
 RT CURIUM 242  
 CURIUM 244  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 CURIUM

## NASA TREASURES (ALPHABETICAL LISTING)

#HEAVY ELEMENTS  
 ISOTOPE  
 NUCLIDES  
 RADIOACTIVE ISOTOPE  
 TRANSURANIUM ELEMENTS  
 CURIUM 242  
 0603 1703 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 CURIUM  
 CURIUM ISOTOPE  
 #HEAVY ELEMENTS  
 ISOTOPE  
 NUCLIDES  
 RADIOACTIVE ISOTOPE  
 TRANSURANIUM ELEMENTS  
 CURIUM 244  
 0603 1703 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 CURIUM  
 CURIUM ISOTOPE  
 #HEAVY ELEMENTS  
 ISOTOPE  
 NUCLIDES  
 RADIOACTIVE ISOTOPE  
 TRANSURANIUM ELEMENTS  
 CURL  
 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CURL (MATERIALS)  
 CURL (VECTORS)  
 CURL (MATERIALS)  
 3203  
 RT CURL  
 DIMENSIONAL STABILITY  
 FOLDING  
 TEXTURES  
 CURL (VECTORS)  
 1902  
 NT VORTICITY  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 #GEOMETRY  
 REAL VARIABLES  
 VECTOR ANALYSIS  
 RT CURL  
 CURRENT ALGEBRA  
 1902  
 BT #ALGEBRA  
 RT MATHEMATICS  
 #NUCLEAR PHYSICS  
 VECTOR CURRENTS  
 CURRENT AMPLIFIERS  
 0902 0904 0905 1002  
 NT FREQUENCY MODULATION  
 PHOTOMULTIPLIERS  
 PHOTOMULTIPLIER TUBES  
 BT #AMPLIFIERS  
 RT TRANSISTOR AMPLIFIERS  
 VOLTAGE AMPLIFIERS  
 CURRENT DENSITY  
 1001 1002 2304  
 BT FLUX DENSITY  
 #RATES (PER TIME)  
 RT CURRENT DISTRIBUTION  
 #ELECTRIC CURRENT  
 ELECTROLYSIS  
 ELECTROPLATING  
 CURRENT DISTRIBUTION  
 1002 2304  
 BT #DISTRIBUTION (PROPERTY)  
 RT CHARGE DISTRIBUTION  
 CURRENT DENSITY  
 ELECTRON DISTRIBUTION  
 HOLE DISTRIBUTION  
 HOLE DISTRIBUTION (ELECTRONICS)  
 ION DISTRIBUTION  
 MAGNETIC ANNULAR ARC  
 CURRENT REGULATORS  
 0902 0904 0905  
 UP CURRENT STABILIZERS  
 BT #REGULATORS  
 RT CIRCUIT PROTECTION  
 #CONTROLLERS  
 #ELECTRIC CURRENT  
 ELECTRIC EQUIPMENT  
 ELECTRIC SWITCHES  
 ELECTRONIC CONTROL  
 LIMITER CIRCUITS

# NASA THESAURUS (ALPHABETICAL LISTING)

POWER SUPPLY CIRCUITS  
SWITCHING CIRCUITS  
TRANSMISSION LOSS  
VOLTAGE REGULATORS  
CURRENT SHEETS  
2304 2307  
RT ANTENNAS  
#ELECTRIC CURRENT  
MAGNETIC FLUX  
SHEETS  
CURRENT STABILIZERS  
USE CURRENT REGULATORS  
CURRENTS  
0102 0103 1203 1204 1310 1301 1302  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIR CURRENTS  
AIR FLOW  
BEAM CURRENTS  
#CIRCULATION  
#ELECTRIC CURRENT  
#FLUID FLOW  
OCEAN CURRENTS  
CURTAINS  
0202 0405 1101 2003 3401 3406  
UF CATENARY CURTAINS  
RT BARRIERS  
DIVIDERS  
DOORS  
ENTRANCES  
#OPENINGS  
PARTITIONS  
PARTITIONS (STRUCTURES)  
SCREENS  
#SEPARATORS  
WALLS  
WINDOWS (APERTURES)  
CURTISS C-46 AIRCRAFT  
USE C-46 AIRCRAFT  
CURTISS-WRIGHT AIRCRAFT  
0207  
UF CURTISS-WRIGHT MILITARY AIRCRAFT  
NT C-46 AIRCRAFT  
X-19 AIRCRAFT  
RT AIRCRAFT  
CURTISS-WRIGHT MILITARY AIRCRAFT  
USE CURTISS-WRIGHT AIRCRAFT  
CURVATURE  
1902 3408  
BT #GEOMETRY  
RT CAMBER  
CURVES  
CURVES (GEOMETRY)  
DIFFERENTIAL GEOMETRY  
FLEXING  
PROFILES  
SHAPES  
ZERO FORCE CURVES  
CURVE FITTING  
1902  
RT DATA SMOOTHING  
#FORECASTING  
LEAST SQUARES METHOD  
MINIMAX TECHNIQUE  
STATISTICAL DISTRIBUTIONS  
STATISTICAL TESTS  
TIME SERIES ANALYSIS  
CURVED BEAMS  
3202 3203  
BT BEAMS (SUPPORTS)  
RT #STRUCTURAL MEMBERS  
CAMBER  
I BEAMS  
CURVED PANELS  
3202 3203  
BT PANELS  
RT CONTOURS  
SHAPES  
WING PANELS  
CURVED SURFACES  
USE CONTOURS  
SHAPES  
SURFACES  
CURVES  
1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CURVATURE  
CURVES (GEOMETRY)  
GRAPHS (CHARTS)

LEARNING CURVES  
TOROIDS  
#TRAJECTORIES  
ZERO FORCE CURVES  
CURVES (GEOMETRY)  
1902  
UF HELICES  
NT CATENARIES  
CYCLOIDS  
EPICYCLOIDS  
GOMPERTZ CURVES  
S CURVES  
BT #GEOMETRY  
RT ANALYTIC GEOMETRY  
ARCS  
CHORDS (GEOMETRY)  
CIRCLES (GEOMETRY)  
CURVATURE  
CURVES  
CUSPS (MATHEMATICS)  
DIFFERENTIAL GEOMETRY  
EUCLIDEAN GEOMETRY  
HOMOTOPY THEORY  
INFLECTION POINTS  
LINE SHAPE  
MANIFOLDS (MATHEMATICS)  
MENISCI  
SEGMENTS  
SPIRALS  
CUSHIONCRAFT GROUND EFFECT MACHINE  
0205  
BT GROUND EFFECT MACHINES  
CUSHIONS  
0203 0508 3201  
RT BUMPERS  
COUCHES  
GROUND EFFECT  
HYDRAULIC EQUIPMENT  
PAD  
PILLOWS  
PNEUMATIC EQUIPMENT  
SEATS  
SHOCK ABSORBERS  
VIBRATION ISOLATORS  
#CUSPS  
1902  
NT CUSPS (MATHEMATICS)  
RT MATHEMATICS  
CUSPS (MATHEMATICS)  
1902  
NT DOUBLE CUSPS  
BT #CUSPS  
#GEOMETRY  
RT CURVES (GEOMETRY)  
EPICYCLOIDS  
MAXIMA  
MINIMA  
CUT-OFF  
0702 1102 1305 1504 2311 2801 2808  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BURNOUT  
ENGINE FAILURE  
#MACHINING  
CUT-OUTS  
USE #OPENINGS  
CUTANEOUS PERCEPTION  
USE TOUCH  
#CUTTERS  
1413 1504  
(EXCLUDES SHIPS)  
NT BLADES (CUTTERS)  
DRILL BITS  
DRILLS  
RAZOR BLADES  
SAWS  
SHEARS  
RT CUTTING  
DIES  
MACHINE TOOLS  
SCRAPERS  
TAPS  
#TOOLS  
CUTTING  
1504 1704 2601  
NT BLANKING (CUTTING)  
METAL CUTTING  
MILLING (MACHINING)  
PLANING  
SCARPING  
SHEARING

# CYANOGEN

SLICING  
SPARK MACHINING  
RT ABRASION  
CHIPPING  
COMMINUTION  
#CUTTERS  
DRILLING  
FLAKING  
#FORMING TECHNIQUES  
FRACTURING  
GRINDING (MATERIAL REMOVAL)  
GROOVING  
#MACHINING  
PEELING  
PERFORATING  
PIERCING  
SEPARATION  
SHREDDING  
SPLITTING  
TORCHES  
CV-2 AIRCRAFT  
USE DHC 4 AIRCRAFT  
CV-7 AIRCRAFT  
USE DHC 5 AIRCRAFT  
CV-340 AIRCRAFT  
0204  
UF CONVAIR 340 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#GENERAL DYNAMICS AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
CV-440 AIRCRAFT  
0204  
UF CONVAIR 440 AIRCRAFT  
METROPOLITAN AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#GENERAL DYNAMICS AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
CV-880 AIRCRAFT  
0204  
BT #COMMERCIAL AIRCRAFT  
#GENERAL DYNAMICS AIRCRAFT  
PASSENGER AIRCRAFT  
RT CONVAIR 880 AIRCRAFT  
CV-990 AIRCRAFT  
0204  
UF CONVAIR 990 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#GENERAL DYNAMICS AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TURBOFAN AIRCRAFT  
CW RADAR  
USE CONTINUOUS WAVE RADAR  
CYANAMIDES  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
AMIDES  
CYANO COMPOUNDS  
#NITROGEN COMPOUNDS  
CYANATES  
0403 1808  
RT #ESTERS  
CYANIDES  
0403 0603 1804 1808  
NT CYANOGEN  
HYDROGEN CYANIDES  
IRON CYANIDES  
RT #ALIPHATIC COMPOUNDS  
CYANO COMPOUNDS  
#NITROGEN COMPOUNDS  
CYANO COMPOUNDS  
0403 0603 1804 1808  
NT CYANAMIDES  
DIISOCYANATES  
FULMINATES  
ISOCYANATES  
BT #NITROGEN COMPOUNDS  
RT CYANIDES  
NITRILES  
CYANOCOBALAMIN  
0403 0405 1808  
UF VITAMIN B 12  
BT #HETEROCYCLIC COMPOUNDS  
VITAMINS  
CYANOGEN  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
CYANIDES

## CYANOPHYTA

CYANOPHYTA  
 USE BLUE GREEN ALGAE  
 CYANOSIS  
 0401 0405 0408  
 BT #DISEASES  
 RT BLOOD CIRCULATION  
 HEART FUNCTION  
 CYANURATES  
 0403 1808  
 BT AZINES  
 #ESTERS  
 #HETEROCYCLIC COMPOUNDS  
 #PYRAZINES  
 CYANURIC ACID  
 0403 1808  
 BT #ACIDS  
 ALCOHOLS  
 #ALIPHATIC COMPOUNDS  
 AZINES  
 #HETEROCYCLIC COMPOUNDS  
 #HYDROXYL COMPOUNDS  
 #PYRAZINES  
 TRIOLS  
 CYBERNETICS  
 0404 0503 0702 3402  
 RT ADAPTIVE CONTROL  
 AUTONATA THEORY  
 AUTOMATION  
 BIONICS  
 #COMMUNICATION THEORY  
 COMPUTERS  
 CONTROL  
 #CONTROLLERS  
 DEPERSONALIZATION  
 #FEEDBACK  
 HUMAN FACTORS ENGINEERING  
 INFORMATION THEORY  
 LEARNING MACHINES  
 MAN MACHINE SYSTEMS  
 #MANAGEMENT  
 NEURAL NETS  
 #PSYCHOLOGY  
 SYSTEMS  
 SYSTEMS ENGINEERING  
 #CYCLES  
 0705 0710 1902  
 UP CYCLING  
 PERIODIC PROCESSES  
 NT ACTIVITY CYCLES (BIOLOGY)  
 BRAYTON CYCLE  
 CARNOT CYCLE  
 OTTO CYCLE  
 RANKINE CYCLE  
 SOLAR CYCLES  
 STIRLING CYCLE  
 STRESS CYCLES  
 SUNSPOT CYCLE  
 THERMODYNAMIC CYCLES  
 WORK-REST CYCLE  
 RT ALTERNATIONS  
 AMPLITUDES  
 ANNUAL VARIATIONS  
 CYCLIC LOADS  
 DIURNAL VARIATIONS  
 FATIGUE (MATERIALS)  
 FREQUENCY DISTRIBUTION  
 HARMONICS  
 INTERMITTENCY  
 LONG TERM EFFECTS  
 PERIODIC VARIATIONS  
 PHASES  
 RECIPROCATION  
 RHYTHM (BIOLOGY)  
 STARTING  
 SUPERHARMONICS  
 CYCLIC ACCELERATORS  
 2202 2403 2405  
 NT BETATONS  
 SYNCHROCYCLOTRONS  
 SYNCHROTRONS  
 BT #PARTICLE ACCELERATORS  
 CYCLIC HYDROCARBONS  
 0403 1808  
 NT ANTHRACENE  
 COLCHICINE  
 CYCLOBUTANE  
 CYCLOPROPANE  
 MENTHOL  
 NAPHTHENES  
 BT #ALIPHATIC COMPOUNDS  
 #HYDROCARBONS  
 RT ALKYNES

CYCLIC LOADS  
 3203 3204  
 (LIMITED TO FORCE LOADS)  
 BT DYNAMIC LOADS  
 #LOADS (FORCES)  
 RT #CYCLES  
 S-N DIAGRAMS  
 STRESS CYCLES  
 TRANSIENT LOADS  
 #VIBRATION  
 VIBRATORY LOADS  
 CYCLING  
 USE #CYCLES  
 CYCLOBUTANE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 CYCLIC HYDROCARBONS  
 #HYDROCARBONS  
 CYCLOHEXANE  
 0403 1808  
 RT HEXENES  
 CYCLOIDS  
 1902  
 BT ANALYTIC GEOMETRY  
 CURVES (GEOMETRY)  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 CYCLONES  
 1301 1308 2003  
 (METEOROLOGICAL--EXCLUDES EQUIPMENT)  
 NT ANNA HURRICANE  
 HURRICANES  
 TYPHOONS  
 BT #STORMS  
 RT ANTICYCLONES  
 ATMOSPHERIC PRESSURE  
 BAROCLINIC WAVES  
 BLATON FORMULA  
 GROUND WIND  
 LOW PRESSURE  
 #METEOROLOGY  
 PRECIPITATION (METEOROLOGY)  
 SYNOPTIC METEOROLOGY  
 TORNADOES  
 TROPICAL STORMS  
 #WIND (METEOROLOGY)  
 CYCLOPROPANE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 ANESTHETICS  
 CYCLIC HYDROCARBONS  
 #DRUGS  
 #HYDROCARBONS  
 RT PROPANE  
 CYCLOPS PLASMA ACCELERATOR  
 2403 3404  
 BT PLASMA ACCELERATORS  
 RT ACCELERATORS  
 CYCLOTETRAMETHYLENE TETRAWITRANINE  
 USE HMX  
 CYCLOTETRAETHYLENE TRINITRANINE  
 USE RDX  
 CYCLOTRON FREQUENCY  
 2401 2403 2404 2502  
 BT #FREQUENCIES  
 RT CHARGED PARTICLES  
 CYCLOTRON RADIATION  
 CYCLOTRON RESONANCE  
 LARMOR PRECESSION  
 CYCLOTRON RADIATION  
 0710 2402 2403  
 BT CORPUSCULAR RADIATION  
 #ELECTROMAGNETIC RADIATION  
 #PARTICLES  
 RT CHARGED PARTICLES  
 CYCLOTRON FREQUENCY  
 LARMOR PRECESSION  
 CYCLOTRON RESONANCE  
 2403 2404 2502  
 BT #RESONANCE  
 RT CHARGED PARTICLES  
 CYCLOTRON FREQUENCY  
 DIAMAGNETISM  
 ENERGY TRANSFER  
 FERMI SURFACES  
 ION CYCLOTRON RADIATION  
 PLASMA RESONANCE  
 CYCLOTRONS  
 2202 2401 2403 2405  
 UP CALUTRONS  
 NT GEOCYCLOTRONS  
 MICROTRONS

## NASA THESAURUS (ALPHABETICAL LISTING)

OAK RIDGE ISOCRONOUS CYCLOTRON  
 ONEGATONS  
 SYNCHROCYCLOTRONS  
 BT #PARTICLE ACCELERATORS  
 RT SYNCHROTRONS  
 CYGNUS CONSTELLATION  
 0705 3001  
 BT CONSTELLATIONS  
 CYLINDERS  
 0202 1103 1502 1504 1902 2801 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ANALYTIC GEOMETRY  
 CIRCULAR CYLINDERS  
 CONCENTRIC CYLINDERS  
 CYLINDRICAL BODIES  
 CYLINDRICAL CHAMBERS  
 CYLINDRICAL SHELLS  
 DRUMS (CONTAINERS)  
 ELASTIC CYLINDERS  
 ELLIPTICAL CYLINDERS  
 HEMISPHERE CYLINDER BODIES  
 MONOCOQUE STRUCTURES  
 ORTHOTROPIC CYLINDERS  
 OSCILLATING CYLINDERS  
 PLASMA CYLINDERS  
 ROTATING CYLINDERS  
 VISCOELASTIC CYLINDERS  
 CYLINDRICAL AFTERBODIES  
 USE AFTERBODIES  
 CYLINDRICAL BODIES  
 CYLINDRICAL ANTENNAS  
 0901  
 BT ANTENNAS  
 RT ANTENNA RADIATION PATTERNS  
 #RADIO EQUIPMENT  
 #SATELLITES  
 CYLINDRICAL BODIES  
 0102 3202 3203  
 UP CYLINDRICAL AFTERBODIES  
 CYLINDROIDS  
 NT ROTATING CYLINDERS  
 BT BODIES OF REVOLUTION  
 #SYMMETRICAL BODIES  
 RT AFTERBODIES  
 AIRY FUNCTION  
 CENTERBODIES  
 CIRCULAR CYLINDERS  
 CYLINDERS  
 CYLINDRICAL SHELLS  
 ELASTIC CYLINDERS  
 ELLIPTICAL CYLINDERS  
 #FOREBODIES  
 FUSELAGES  
 HEMISPHERE CYLINDER BODIES  
 ORTHOTROPIC CYLINDERS  
 OSCILLATING CYLINDERS  
 PLASMA CYLINDERS  
 ROLLERS  
 VISCOELASTIC CYLINDERS  
 CYLINDRICAL CHAMBERS  
 3203  
 RT #BRAKES (FOR ARRESTING MOTION)  
 CHAMBERS  
 CYLINDERS  
 CYLINDRICAL SHELLS  
 CYLINDRICAL SHELLS  
 1902 3203  
 UP MONOCOQUE CYLINDERS  
 BT ORTHOTROPIC SHELLS  
 #SHELLS (STRUCTURAL FORMS)  
 RT CIRCULAR CYLINDERS  
 CIRCULAR SHELLS  
 CIRCULAR TUBES  
 CONCENTRIC CYLINDERS  
 CYLINDERS  
 CYLINDRICAL BODIES  
 CYLINDRICAL CHAMBERS  
 CYLINDRICAL TANKS  
 ELASTIC CYLINDERS  
 ELLIPTICAL CYLINDERS  
 METAL SHELLS  
 ORTHOTROPIC CYLINDERS  
 OSCILLATING CYLINDERS  
 PLASMA CYLINDERS  
 REINFORCED SHELLS  
 ROTATING CYLINDERS  
 THIN WALLED SHELLS  
 VISCOELASTIC CYLINDERS  
 CYLINDRICAL TANKS  
 1502 3202

NASA THESAURUS (ALPHABETICAL LISTING)

CZOCHEBSKI METHOD

BT #TANKS (CONTAINERS)  
 RT CYLINDRICAL SHELLS  
     FUEL TANKS  
     PROPELLANT TANKS  
     STORAGE TANKS  
 CYLINDRICAL WAVES  
     0710 1202 1203  
 RT AXISYMMETRIC FLOW  
     #ELASTIC WAVES  
     #ELECTROMAGNETIC RADIATION  
     PLANE WAVES  
     SPHERICAL WAVES  
     #WAVES  
 CYLINDROIDS  
 USE CYLINDRICAL BODIES  
 CYRILLID METEOROIDS  
     3005  
 RT BOLIDES  
     #CELESTIAL BODIES  
     METEOROID SHOWERS  
     METEOROIDS  
 RT NATURAL SATELLITES  
     TEKTITES  
 CYSTEAMINE  
     0403 1808  
 RT #AMINES  
 CYSTEINE  
     0403 1808  
 RT #ACIDS  
     #ALIPHATIC COMPOUNDS  
     AMINO ACIDS  
     #DRUGS  
     #ORGANIC COMPOUNDS  
     #SULFUR COMPOUNDS  
     THIOLS  
 RT #PROTEINS  
 CYSTIC FIBROSIS  
     0404 0405  
 RT FIBROSIS  
 RT #DISEASES  
     TISSUES (BIOLOGY)  
 CYSTS  
     0404 0405  
 RT NEOPLASMS  
     TISSUES (BIOLOGY)  
     TUMORS  
 CYTIDYLIC ACID  
     0403 1808  
 RT #ACIDS  
     #HETEROCYCLIC COMPOUNDS  
 CYTOCHROMES  
     0403 1808  
 RT PIGMENTS  
 RT CYTOGENESIS  
     SKIN (ANATOMY)  
 CYTOGENESIS  
     0404 0406  
 RT BIOLOGY  
     #CELLS (BIOLOGY)  
     CYTOCHROMES  
     CYTOLOGY  
     CYTOPLASM  
     DIFFERENTIATION (BIOLOGY)  
     #GENETICS  
     HEREDITY  
 CYTOLOGY  
     0404 0406  
 RT BIOCHEMISTRY  
     BIOLOGY  
     #CELLS (BIOLOGY)  
     CHROMOSOMES  
     CYTOGENESIS  
     MITOCHONDRIA  
     MITOSIS  
     PLASMOLYSIS  
 CYTOPLASM  
     0406  
 RT CHLOROPLASTS  
     CYTOGENESIS  
     EOSINOPHILS  
     FIBROBLASTS  
     MITOSIS  
 CZECHOSLOVAKIA  
     1305  
 RT EUROPE  
     NATIONS  
 CZOCHEBSKI METHOD  
     1504 1704 2601  
 RT CRYSTAL GROWTH  
     #GROWTH  
 RT METHODOLOGY  
     VERNEUIL PROCESS

# D

D-558 AIRCRAFT  
0201 0204  
UF DOUGLAS D-558 AIRCRAFT  
SKYROCKET AIRCRAFT  
SKYSTREAK AIRCRAFT  
BT DOUGLAS AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
#SUPERSONIC AIRCRAFT  
D LAYER  
USE D REGION  
D LINES  
1411 2306 2902  
UF SODIUM D-LINE  
BT ELECTROMAGNETIC SPECTRA  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
EMISSION SPECTRA  
H LINES  
SOLAR SPECTRA  
D REGION  
1302 1308 3002  
UF D LAYER  
BT #EARTH ATMOSPHERE  
IONOSPHERE  
LOWER IONOSPHERE  
#REGIONS  
D-6 ROCKET VEHICLE  
3101  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
D-1 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
DACRON (TRADEMARK)  
1811  
BT FABRICS  
#FIBERS  
SYNTHETIC FIBERS  
RT POLYESTER RESINS  
REINFORCING FIBERS  
DARMO (DATA ANALYSIS)  
USE #DATA PROCESSING  
DATA REDUCTION  
DATA TRANSMISSION  
DAIMLER-BENZ PTL-6 GAS TURBINE ENGINE  
USE PTL-6 ENGINE  
DAKOTA AIRCRAFT  
USE C-47 AIRCRAFT  
DALTON LAW  
1203 2311  
RT GAS COMPOSITION  
GAS DYNAMICS  
GAS-GAS INTERACTIONS  
IDEAL GAS  
PARTIAL PRESSURE  
VAPOR PRESSURE  
#DAMAGE  
0411 0412 1108 1505 3406  
RT CUMULATIVE DAMAGE  
IMPACT DAMAGE  
METEORITIC DAMAGE  
PROTON DAMAGE  
RADIATION DAMAGE  
RAIN IMPACT DAMAGE  
BURNTHROUGH (FAILURE)  
CORROSION  
#DECAY  
DECOMPOSITION  
#DEFECTS  
#DEFORMATION  
DEGRADATION  
DESTRUCTION  
DETERIORATION  
DISCOLORATION  
DISINTEGRATION  
DURABILITY  
FATIGUE (BIOLOGY)  
FATIGUE (MATERIALS)  
FRACTURES (MATERIALS)  
IMMOBILIZATION  
IMPAIRMENT  
#INJURIES  
LETHALITY  
LOSSES

RADIATION EFFECTS  
WARPAGE  
WEAR  
WEATHERING  
DAMP PROGRAM  
USE DOWNRANGE ANTIMISSILE MEASUREMENT  
PROGRAM  
DAMPERS  
1501 1504 2308 3110  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DAMPERS (VALVES)  
OSCILLATION DAMPERS  
VIBRATION ISOLATORS  
DAMPERS (VALVES)  
1501 1504  
BT BUTTERFLY VALVES  
#VALVES  
RT AUTOMATIC CONTROL VALVES  
DAMPERS  
GAS VALVES  
VIBRATION ISOLATORS  
DAMPING  
1902 2308 2311 3203  
UF DAMPING FACTOR  
DAMPING IN PITCH  
DAMPING IN ROLL  
DAMPING IN YAW  
ELASTIC STABILITY  
JET DAMPING  
NT ELASTIC DAMPING  
LANDAU DAMPING  
VIBRATION DAMPING  
VISCOUS DAMPING  
RT ABSORPTION  
#ATTENUATION  
BAPPLES  
DECELERATION  
DISSIPATION  
#DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
DYNAMIC STABILITY  
#ENERGY ABSORPTION  
GYROSCOPE FLUIDS  
GYROSCOPIC PENDULUMS  
GYROSCOPIC STABILITY  
HYSTERESIS  
#IMPEDANCE  
INSULATION  
INTERNAL FRICTION  
MECHANICAL IMPEDANCE  
MUFFLERS  
NEGATIVE FEEDBACK  
#OSCILLATIONS  
REDUCTION  
RESISTANCE  
RESONANT FREQUENCIES  
RESONANT VIBRATION  
RETARDING  
SHOCK ABSORBERS  
SILENCERS  
STABILITY DERIVATIVES  
STOPPING  
SUBHARMONIC GENERATORS  
SUPPRESSORS  
TIME CONSTANT  
TRANSFER FUNCTIONS  
TRANSIENT OSCILLATIONS  
TRANSIENT RESPONSE  
VIBRATION ISOLATORS  
WAVE INTERACTION  
DAMPING FACTOR  
USE DAMPING  
DAMPING IN PITCH  
USE DAMPING  
PITCH (INCLINATION)  
DAMPING IN ROLL  
USE DAMPING  
ROLL  
DAMPING IN YAW  
USE DAMPING  
YAW  
DAMPING TESTS  
1108 1504  
NT STROKING TESTS  
BT #VIBRATION TESTS  
RT RESONANCE TESTING  
STABILITY TESTS  
VIBRATION MEASUREMENT  
DAMPNESS  
USE MOISTURE CONTENT

DAMS  
3202  
RT BARRAGES  
BARRIERS  
RESERVOIRS  
DANGER  
USE #HAZARDS  
DARD TARGET  
0207 3401  
BT #TARGETS  
DARK ADAPTATION  
0404 0408  
BT #ADAPTATION  
RETINAL ADAPTATION  
RT DARKNESS  
NIGHT VISION  
PUPILLOMETRY  
VISION  
DARKENING  
3407  
RT DARKNESS  
ILLUMINATION  
NIGHT  
VISIBILITY  
DARKNESS  
2306  
RT COLOR  
DARK ADAPTATION  
DARKENING  
DIURNAL VARIATIONS  
ILLUMINATING  
ILLUMINATION  
LIGHT (VISIBLE RADIATION)  
NIGHT  
OPTICAL PROPERTIES  
SHADOWS  
DARKROOMS  
0504 0605 1407  
BT ROOMS  
RT PHOTOGRAPHIC PROCESSING  
PHOTOGRAPHIC PROCESSING EQUIPMENT  
#PHOTOGRAPHY  
DART TURBOPROP ENGINES  
USE TURBOPROP ENGINES  
DASH HELICOPTER  
USE QH-50 HELICOPTER  
DASSAULT AIRCRAFT  
0201  
NT MIRAGE 3 AIRCRAFT  
MYSTERE 20 AIRCRAFT  
RT AIRCRAFT  
DASSAULT MIRAGE 3 AIRCRAFT  
USE MIRAGE 3 AIRCRAFT  
DASSAULT MYSTERE 20 AIRCRAFT  
USE MYSTERE 20 AIRCRAFT  
DATA  
0802 0803 1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ANALOG DATA  
BINARY DATA  
BIOMEDICAL DATA  
CENSORED DATA (MATHEMATICS)  
CONTROL DATA (COMPUTERS)  
#DATA PROCESSING  
DATUM (ELEVATION)  
DIGITAL DATA  
INFORMATION  
RADAR DATA  
RECORDS  
#STATISTICAL ANALYSIS  
STATISTICAL TESTS  
TABLES (DATA)  
VIDEO DATA  
DATA ACQUISITION  
0702 0708 0803 1106 3405  
BT ACQUISITION  
RT ANALOG TO DIGITAL CONVERTERS  
COUNTING  
DATA MANAGEMENT  
#DATA PROCESSING  
DATA RECORDING  
DATA REDUCTION  
DATA RETRIEVAL  
DATA SAMPLING  
DATA STORAGE  
DATA TRANSMISSION  
DEEP SPACE INSTRUMENTATION FACILITY  
#DETECTION  
FORMS (PAPER)  
GLOBAL TRACKING NETWORK



## DATA ADAPTIVE EVALUATOR/MONITOR

GROUND STATIONS  
 NEWS MEDIA  
 OBSERVATION  
 OPTICAL DATA PROCESSING  
 OPTICAL SCANNERS  
 REMOTE SENSORS  
 SENSORS  
 STADAN (SATELLITE TRACKING NETWORK) RT  
 SURVEYS  
 TABLES (DATA)  
 TRACKING NETWORKS  
 DATA ADAPTIVE EVALUATOR/MONITOR  
 USE #DATA PROCESSING  
 DATA REDUCTION  
 DATA TRANSMISSION  
 DATA ANALYSIS  
 USE #DATA PROCESSING  
 DATA REDUCTION  
 DATA COMPRESSORS  
 USE DATA REDUCTION  
 DATA TRANSMISSION  
 DATA CONTROL SYSTEMS  
 USE DATA SYSTEMS  
 DATA CONVERTERS  
 0701 0801  
 NT ANALOG TO DIGITAL CONVERTERS  
 BINARY TO DECIMAL CONVERTERS  
 DECIMAL TO BINARY CONVERTERS  
 DIGITAL TO ANALOG CONVERTERS  
 RT ANALOG CIRCUITS  
 ANALOG DATA  
 COMPUTERS  
 CONVERSION TABLES  
 CONVERTERS  
 DECODERS  
 DIGITAL DATA  
 #TRANSDUCERS  
 VIDEO DATA  
 DATA CORRELATION  
 0803 1905  
 NT SIGNAL ANALYSIS  
 BT CORRELATION  
 #DATA PROCESSING  
 RT ANGULAR CORRELATION  
 AUTOCORRELATION  
 CROSS CORRELATION  
 #STATISTICAL ANALYSIS  
 STATISTICAL CORRELATION  
 DATA HANDLING SYSTEMS  
 USE DATA SYSTEMS  
 DATA LINKS  
 0701 0801 0902  
 RT CHANNELS (DATA TRANSMISSION)  
 DATA PROCESSING TERMINALS  
 DATA TRANSMISSION  
 DECOMPUTATORS  
 RADIO RECEIVERS  
 RADIO RELAY SYSTEMS  
 REMOTE CONSOLES  
 SITE DATA PROCESSORS  
 TELEMETRY  
 WIRELESS COMMUNICATIONS  
 DATA MANAGEMENT  
 0703 0802 0803 3405 3406  
 BT #MANAGEMENT  
 RT DATA ACQUISITION  
 #DATA PROCESSING  
 DATA RECORDING  
 DATA REDUCTION  
 DATA RETRIEVAL  
 DATA SAMPLING  
 DATA STORAGE  
 DATA TRANSMISSION  
 SURVEYS  
 TABLES (DATA)  
 #DATA PROCESSING  
 0708 0802 0803  
 (MECHANICAL OR ELECTRONIC MANIPULATION  
 OF DATA)  
 UP AUTOMATIC DATA PROCESSING  
 DAEMO (DATA ANALYSIS)  
 DATA ADAPTIVE EVALUATOR/MONITOR  
 DATA ANALYSIS  
 TAPE MERGING  
 NT BATCH PROCESSING  
 CENSORED DATA (MATHEMATICS)  
 CENTRAL ELECTRONIC MANAGEMENT  
 SYSTEM  
 DATA CORRELATION  
 DATA REDUCTION  
 DATA RETRIEVAL  
 DATA SMOOTHING

DATA STORAGE  
 KARHUNEN-LOEVE EXPANSION  
 OPTICAL DATA PROCESSING  
 PARALLEL PROCESSING (COMPUTERS)  
 SIGNAL ANALYSIS  
 SIGNAL PROCESSING  
 VOICE DATA PROCESSING  
 ACCESS TIME  
 ADJOINTS  
 AIRBORNE/SPACEBORNE COMPUTERS  
 ANALOG DATA  
 AUTOMATION  
 AUXILIARY EQUIPMENT (COMPUTERS)  
 BINARY DATA  
 BINARY TO DECIMAL CONVERTERS  
 CHANNELS (DATA TRANSMISSION)  
 #COMPUTATION  
 #COMPUTER PROGRAMS  
 COMPUTER SYSTEMS PROGRAMS  
 COMPUTERS  
 DATA  
 DATA ACQUISITION  
 DATA MANAGEMENT  
 #DATA PROCESSING EQUIPMENT  
 DATA RECORDING  
 DATA SAMPLING  
 DATA SYSTEMS  
 DATA TRANSMISSION  
 DECIMAL TO BINARY CONVERTERS  
 DIGITAL COMPUTERS  
 DIGITAL DATA  
 EDITING  
 EDITING ROUTINES (COMPUTERS)  
 FLOATING POINT ARITHMETIC  
 INFORMATION THEORY  
 INTERROGATION  
 LANGUAGE PROGRAMMING  
 MECHANIZATION  
 PROCESSING  
 RCA COMPUTERS  
 RECORDS  
 RESPONSE TIME (COMPUTERS)  
 SITE DATA PROCESSORS  
 SYMBOLS  
 SYSTEMS ENGINEERING  
 TABLES (DATA)  
 TABULATION PROCESSES  
 #TELECOMMUNICATION  
 #DATA PROCESSING EQUIPMENT  
 0801  
 UP DATA PROCESSORS  
 NT AIRBORNE/SPACEBORNE COMPUTERS  
 ANALOG COMPUTERS  
 AUXILIARY EQUIPMENT (COMPUTERS)  
 BURROUGHS 220 COMPUTER  
 CDC 160-A COMPUTER  
 CDC 1604 COMPUTER  
 CDC 3100 COMPUTER  
 CDC 3200 COMPUTER  
 CDC 3600 COMPUTER  
 CDC 3800 COMPUTER  
 CDC 8090 COMPUTER  
 CDC COMPUTERS  
 CDC 6000 SERIES COMPUTERS  
 COMPUTERS  
 COUNTING RATE COMPUTERS  
 DATA PROCESSING TERMINALS  
 DIGITAL COMPUTERS  
 FERRANTI MERCURY COMPUTER  
 GENERAL ELECTRIC COMPUTERS  
 HONEYWELL ADEPT COMPUTER  
 HONEYWELL DDP 116 COMPUTER  
 HYBRID COMPUTERS  
 IBM 360 COMPUTER  
 IBM 650 COMPUTER  
 IBM 704 COMPUTER  
 IBM 709 COMPUTER  
 IBM 1130 COMPUTER  
 IBM 1401 COMPUTER  
 IBM 1410 COMPUTER  
 IBM 1620 COMPUTER  
 IBM 2250 COMPUTER  
 IBM 7030 COMPUTER  
 IBM 7040 COMPUTER  
 IBM 7044 COMPUTER  
 IBM 7070 COMPUTER  
 IBM 7074 COMPUTER  
 IBM 7090 COMPUTER  
 IBM 7094 COMPUTER  
 IBM COMPUTERS  
 ILLIAC 4 COMPUTER  
 ILLIAC COMPUTERS

## NASA THESAURUS (ALPHABETICAL LISTING)

INTERCOM 1000 COMPUTER  
 MINOS COMPUTER  
 ORDVAC COMPUTER  
 PDP 7 COMPUTER  
 PDP 8 COMPUTER  
 PDP 9 COMPUTER  
 PDP 10 COMPUTER  
 PEGASUS COMPUTER  
 PHILCO 2000 COMPUTER  
 PRINTERS (DATA PROCESSING)  
 RCA COMPUTERS  
 RCA-110 COMPUTERS  
 RCA SPECTRA 70 COMPUTER  
 SDS 930 COMPUTER  
 SDS 9300 COMPUTER  
 SDS 900 SERIES COMPUTERS  
 SEQUENTIAL COMPUTERS  
 SIEMENS 2002 COMPUTER  
 SITE DATA PROCESSORS  
 SOLOMON COMPUTERS  
 UNIVAC 80 COMPUTER  
 UNIVAC 418 COMPUTER  
 UNIVAC 490 COMPUTER  
 UNIVAC 1005 COMPUTER  
 UNIVAC 1105 COMPUTER  
 UNIVAC 1107 COMPUTER  
 UNIVAC 1108 COMPUTER  
 UNIVAC 1824 COMPUTER  
 UNIVAC COMPUTERS  
 UNIVAC LARC COMPUTER  
 RT BATCH PROCESSING  
 CONTROL UNITS (COMPUTERS)  
 #DATA PROCESSING  
 DATA TRANSMISSION  
 DIGITAL RADAR SYSTEMS  
 EQUIPMENT  
 #INTERFACES  
 OPTICAL DATA PROCESSING  
 PRINTERS  
 REMOTE CONSOLES  
 #SIMULATION  
 DATA PROCESSING TERMINALS  
 0801  
 BT COMPUTER GRAPHICS  
 #DATA PROCESSING EQUIPMENT  
 RT CONSOLES  
 DATA LINKS  
 MAN MACHINE SYSTEMS  
 REMOTE CONSOLES  
 DATA PROCESSORS  
 USE #DATA PROCESSING EQUIPMENT  
 DATA READOUT SYSTEMS  
 USE DATA SYSTEMS  
 #DISPLAY DEVICES  
 DATA RECORDERS  
 0801 0803 0905  
 RT COUNTERS  
 DATA RECORDING  
 #DISPLAY DEVICES  
 MONITORS  
 PUNCHED CARDS  
 RECORDERS  
 #RECORDING INSTRUMENTS  
 TAPE RECORDERS  
 DATA RECORDING  
 0802 0803 1106  
 BT RECORDING  
 RT DATA ACQUISITION  
 DATA MANAGEMENT  
 #DATA PROCESSING  
 DATA RECORDERS  
 DATA REDUCTION  
 DATA SAMPLING  
 DATA SMOOTHING  
 DATA STORAGE  
 MAGNETIC RECORDING  
 MAGNETIC STORAGE  
 PHOTOGRAPHIC RECORDING  
 PUNCHED CARDS  
 PUNCHED TAPES  
 RECORDING HEADS  
 RECORDS  
 TABLES (DATA)  
 TABULATION PROCESSES  
 DATA REDUCTION  
 0802 0803 1905 0708  
 UP DAEMO (DATA ANALYSIS)  
 DATA ADAPTIVE EVALUATOR/MONITOR  
 DATA ANALYSIS  
 DATA COMPRESSORS  
 TARE (DATA REDUCTION)  
 TELEMETRY AUTO REDUCTION SYSTEM

# NASA THESAURUS (ALPHABETICAL LISTING)

# DEAFNESS

NT DATA SMOOTHING	DATA ACQUISITION	DC 9 AIRCRAFT
BT #DATA PROCESSING	DATA LINKS	0201 0204
RT #COMPUTATION	DATA MANAGEMENT	UP DOUGLAS DC-9 AIRCRAFT
DATA ACQUISITION	#DATA PROCESSING	BT DOUGLAS AIRCRAFT
DATA MANAGEMENT	#DATA PROCESSING EQUIPMENT	#JET AIRCRAFT
DATA RECORDING	DATA RETRIEVAL	#TRANSPORT AIRCRAFT
EDITING	DEEP SPACE INSTRUMENTATION FACILITY	AIRCRAFT
REDUCTION	FM/PM (MODULATION)	0204
TABLES (DATA)	INFORMATION THEORY	BT #COMMERCIAL AIRCRAFT
DATA RETRIEVAL	MULTIPLEXING	DOUGLAS AIRCRAFT
0802 0803 0708	PULSE COMMUNICATION	#JET AIRCRAFT
BT #DATA PROCESSING	RADIO TELEMETRY	MCDONNELL AIRCRAFT
RETRIEVAL	RADIO TRANSMISSION	PASSENGER AIRCRAFT
RT DATA ACQUISITION	READING	#TRANSPORT AIRCRAFT
DATA MANAGEMENT	REDUNDANCY ENCODING	RT TURBOFAN ENGINES
DATA STORAGE	SATELLITE TRANSMISSION	DDT
DATA TRANSMISSION	TDR SATELLITES	USE DICHLORODIPHENYLTRICHLOROETHANE
DOCUMENTATION	#TELECOMMUNICATION	DE BROGLIE WAVELENGTHS
INFORMATION MANAGEMENT	TELEMETRY	2402 2403
INFORMATION RETRIEVAL	TRANSMISSION EFFICIENCY	BT WAVELENGTHS
INTERSERVICE DATA EXCHANGE PROGRAM	VIDEO DATA	RT ELEMENTARY PARTICLES
LIBRARIES	WIRELESS COMMUNICATIONS	#MASS
MANAGEMENT INFORMATION SYSTEMS	DATING	MOMENTUM
MICROFILMS	USE CHRONOLOGY	PLANCKS CONSTANT
SEARCH PROFILES	TIME MEASUREMENT	QUANTUM THEORY
TABLES (DATA)	DATUM (ELEVATION)	VELOCITY
TELEMETRY	1303	WENTZEL-KRAMER-BRILLOUIN METHOD
WORLD DATA CENTERS	RT CLEARANCES	DE HAVILLAND AIRCRAFT
DATA SAMPLING	CONTOURS	0204
0802 1905	DATA	NT DH 108 AIRCRAFT
UF SAMPLED DATA	ELEVATION ANGLE	DH 110 AIRCRAFT
SAMPLED DATA SYSTEMS	LEVELING	DH 112 AIRCRAFT
BT SAMPLING	#MAPS	DH 115 AIRCRAFT
RT DATA ACQUISITION	SURVEYS	DH 121 AIRCRAFT
DATA MANAGEMENT	DAWN CHORUS	DH 125 AIRCRAFT
#DATA PROCESSING	0704 1301 1302	DHC 4 AIRCRAFT
DATA RECORDING	UF CHORUS (DAWN PHENOMENON)	DHC 5 AIRCRAFT
QUALITY CONTROL	CHORUS PHENOMENON	RT AIRCRAFT
#TELECOMMUNICATION	BT #ATMOSPHERIC RADIATION	DE HAVILLAND DH 106 AIRCRAFT
TIME SERIES ANALYSIS	ATMOSPHERICS	USE CONET 4 AIRCRAFT
DATA SMOOTHING	BLACKOUT (PROPAGATION)	DE HAVILLAND DH 108 AIRCRAFT
0802 1902 1905 0708	#ELECTROMAGNETIC INTERFERENCE	USE DH 108 AIRCRAFT
BT #DATA PROCESSING	ELECTROMAGNETIC NOISE	DE HAVILLAND DH 110 AIRCRAFT
DATA REDUCTION	IONOSPHERICS	USE DH 110 AIRCRAFT
RECORDING	RADIO FREQUENCY INTERFERENCE	DE HAVILLAND DH 112 AIRCRAFT
SMOOTHING	RT AURORAS	USE DH 112 AIRCRAFT
RT CURVE FITTING	MAGNETIC STORMS	DE HAVILLAND DH 115 AIRCRAFT
DATA RECORDING	WHISTLERS	USE DH 115 AIRCRAFT
DATA STORAGE	DAYGLOW	DE HAVILLAND DH 121 AIRCRAFT
0802 0803	0605 1302 2306 2402 2901 2902 2903	USE DH 121 AIRCRAFT
BT #DATA PROCESSING	BT #ATMOSPHERIC RADIATION	DE HAVILLAND DH 125 AIRCRAFT
RT BUFFER STORAGE	#ELECTROMAGNETIC RADIATION	USE DH 125 AIRCRAFT
CORE STORAGE	LIGHT (VISIBLE RADIATION)	DE HAVILLAND DHC 4 AIRCRAFT
DATA ACQUISITION	SKY RADIATION	USE DHC 4 AIRCRAFT
DATA MANAGEMENT	RT AIRGLOW	DE HAVILLAND DHC 5 AIRCRAFT
DATA RECORDING	GLARE	USE DHC 5 AIRCRAFT
DATA RETRIEVAL	LIGHT SOURCES	DE HAVILLAND VENOM AIRCRAFT
DOCUMENT STORAGE	SKY	USE DH 112 AIRCRAFT
FLIP-FLOPS	SOLAR RADIATION	DE LAVAL NOZZLES
HOLOGRAPHY	TWILIGHT GLOW	USE CONVERGENT-DIVERGENT NOZZLES
INFORMATION MANAGEMENT	ULTRAVIOLET RADIATION	DEACCLIMATIZATION
INTERSERVICE DATA EXCHANGE PROGRAM	DAYTIME	USE ACCLIMATIZATION
MAGNETIC STORAGE	0404 1308 1406 1901	DEACON-ARROW ROCKET VEHICLE
MANAGEMENT INFORMATION SYSTEMS	RT DIURNAL VARIATIONS	3106
MICROFILMS	EVENING	BT MULTISTAGE ROCKET VEHICLES
MICROPHOTOGRAPHS	MORNING	#ROCKET VEHICLES
PUNCHED CARDS	NIGHT	SOUNDING ROCKETS
SELECTIVE DISSEMINATION OF	NOON	RT SOLID PROPELLANT ROCKET ENGINES
INFORMATION	SKY BRIGHTNESS	DEACTIVATION
STORAGE	DC (CURRENT)	3302 3401
WORLD DATA CENTERS	USE DIRECT CURRENT	UP INACTIVATION
DATA SYSTEMS	DC 3 AIRCRAFT	RT ACTIVATION
0702 0708 0803 1003	0204 0207	PASSIVITY
UF DATA CONTROL SYSTEMS	UF DOUGLAS DC-3 AIRCRAFT	POLARIZATION (CHARGE SEPARATION)
DATA HANDLING SYSTEMS	BT DOUGLAS AIRCRAFT	POLARIZATION (SPIN ALIGNMENT)
DATA READOUT SYSTEMS	MONOPLANES	SHUTDOWNS
RT CONTROL DATA (COMPUTERS)	#TRANSPORT AIRCRAFT	DEAD RECKONING
#DATA PROCESSING	DC 7 AIRCRAFT	2103
DIGITAL SYSTEMS	0204 0207	BT #NAVIGATION
MANAGEMENT INFORMATION SYSTEMS	UF DOUGLAS DC-7 AIRCRAFT	RT AIR NAVIGATION
DATA TRANSMISSION	BT DOUGLAS AIRCRAFT	DIGITAL NAVIGATION
0702 0708 0802 0803	MONOPLANES	DOPPLER NAVIGATION
UF DEMO (DATA ANALYSIS)	RT PASSENGER AIRCRAFT	INERTIAL NAVIGATION
DATA ADAPTIVE EVALUATOR/MONITOR	DC 8 AIRCRAFT	POLAR NAVIGATION
DATA COMPRESSORS	0204	RADAR NAVIGATION
INFORMATION TRANSMISSION	UF DOUGLAS DC-8 AIRCRAFT	RADIO NAVIGATION
AUTOMATIC PICTURE TRANSMISSION	BT DOUGLAS AIRCRAFT	SURFACE NAVIGATION
CHANNELS (DATA TRANSMISSION)	#JET AIRCRAFT	DEADWEIGHT
BT #SIGNAL TRANSMISSION	MONOPLANES	USE STATIC LOADS
#TRANSMISSION	PASSENGER AIRCRAFT	DEAFNESS
CODING	#TRANSPORT AIRCRAFT	USE AUDITORY DEFECTS
#COMMUNICATION THEORY	TURBOFAN AIRCRAFT	

DEATH

DEATH 0404 0408  
RT EXPIRATION  
#INJURIES  
LIFE SPAN  
MORTALITY  
DEBONAIR AIRCRAFT  
USE C-33 AIRCRAFT  
DEBRIS  
0411 0505 3009  
NT RADIOACTIVE DEBRIS  
SPACE DEBRIS  
RT FRAGMENTS  
#POLLUTION  
SCRAP  
#WASTES  
DEBUGGING  
USE CHECKOUT  
DEBYE-HUCKEL THEORY  
0603 0604  
RT DEBYE LENGTH  
DISSOCIATION  
ELECTROLYTES  
PLASMA POTENTIALS  
THEORIES  
DEBYE LENGTH  
2301 2402 3304  
BT DISTANCE  
RT DEBYE-HUCKEL THEORY  
#PLASMAS (PHYSICS)  
DEBYE-SCHERER METHOD  
2601 2603  
RT CRYSTALLOGRAPHY  
DIFFRACTION  
DEBYE TEMPERATURE  
USE SPECIFIC HEAT  
DECAHEDRIC WAVES  
0705  
BT #ELECTROMAGNETIC RADIATION  
RADIO WAVES  
RT HIGH FREQUENCIES  
VERY HIGH FREQUENCIES  
DECARBONATION  
0403 0602  
BT #CHEMICAL REACTIONS  
RT CARBONIZATION  
DECARBOXYLATION  
0403 0602  
BT #CHEMICAL REACTIONS  
RT CARBOXYLATION  
DECARBURIZATION  
0602  
RT CARBURIZING  
#DECAY  
0404 0710 2311 2403 2405 2406  
NT ALPHA DECAY  
BIOLUMINESCENCE  
CHEMILUMINESCENCE  
ELECTROLUMINESCENCE  
ELECTRON EMISSION  
EMISSION  
FIELD EMISSION  
FLUORESCENCE  
HALF LIFE  
INCANDESCENCE  
ION EMISSION  
LIGHT EMISSION  
LUMINESCENCE  
LUNAR LUMINESCENCE  
NEUTRON DECAY  
NEUTRON EMISSION  
NUCLEAR FISSION  
OPTICAL RESONANCE  
PARTICLE EMISSION  
PHOSPHORESCENCE  
PHOTOELECTRIC EFFECT  
PHOTOELECTRIC EMISSION  
PHOTOIONIZATION  
PHOTOLUMINESCENCE  
PHOTOPRODUCTION  
PLASMA DECAY  
RADIO EMISSION  
RADIOACTIVE DECAY  
SECONDARY EMISSION  
SELF SUSTAINED EMISSION  
SHOCK WAVE LUMINESCENCE  
SOLAR RADIO BURSTS  
SOLAR RADIO EMISSION  
SONOLUMINESCENCE  
SPECTRAL EMISSION  
STIMULATED EMISSION  
STRANGENESS

THERMAL EMISSION  
THERMIONIC EMISSION  
THERMOLUMINESCENCE  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
X RAY FLUORESCENCE  
RT #DAMAGE  
DEGRADATION  
DETERIORATION  
DISINTEGRATION  
RADIATIVE LIFETIME  
DECAY RATES  
2401 2403 2404 2406  
NT ELECTRON DECAY-RATE  
BT #RATES (PER TIME)  
DECCA NAVIGATION  
0705 2104  
BT HYPERBOLIC NAVIGATION  
#NAVIGATION  
RADIO NAVIGATION  
RT DISTANCE MEASURING EQUIPMENT  
LORAN  
LORAN C  
LORAN D  
#NAVIGATION AIDS  
SHORAN  
SOLAR COMPASSES  
SURFACE NAVIGATION  
DECELERATION  
0201 0408 2308 2403 3201  
UF IMPACT DECELERATION  
NT SPIN REDUCTION  
BT ACCELERATION (PHYSICS)  
#RATES (PER TIME)  
RT ANGULAR ACCELERATION  
BRAKING  
DAMPING  
IMPACT  
IMPACT ACCELERATION  
LANDING LOADS  
PHYSIOLOGICAL ACCELERATION  
REDUCTION  
RETARDING  
RETROPIRING  
RETROTHRUST  
STOPPING  
THRUST REVERSAL  
DECELERATORS  
USE #BRAKES (FOR ARRESTING MOTION)  
DECEPTION  
3406  
RT AIR DEFENSE  
CHAFF  
ELECTRONIC COUNTERMEASURES  
#STIMULATION  
DECIMAL TO BINARY CONVERTERS  
0802 1902  
BT DATA CONVERTERS  
RT BINARY DATA  
BINARY TO DECIMAL CONVERTERS  
#COMPUTER COMPONENTS  
#DATA PROCESSING  
DECIMALS  
1902  
RT DIGITS  
#NUMBER THEORY  
NUMBERS  
DECIMETER WAVES  
0705 2309 2402  
BT #ELECTROMAGNETIC RADIATION  
MICROWAVES  
RADIO WAVES  
SHORT WAVE RADIATION  
RT MILLIMETER WAVES  
PLANETARY RADIATION  
SOLAR RADIO EMISSION  
ULTRAHIGH FREQUENCIES  
DECISION ELEMENTS  
USE LOGICAL ELEMENTS  
DECISION MAKING  
0410 0802 0804 3402 3406  
RT COGNITION  
COMMAND AND CONTROL  
CONTRACT MANAGEMENT  
CONTRACT NEGOTIATION  
DECISIONS  
ECONOMY  
JUDGMENTS  
#MANAGEMENT  
MANAGEMENT METHODS

MANAGEMENT PLANNING  
PROBLEM SOLVING  
SYSTEMS ENGINEERING  
TRADEOFFS  
DECISION THEORY  
0410 0802 1905 3402  
NT STATISTICAL DECISION THEORY  
RT DYNAMIC PROGRAMMING  
EXPECTATION  
GAME THEORY  
INFORMATION THEORY  
MATHEMATICAL MODELS  
OPERATIONS RESEARCH  
PROBABILITY THEORY  
RECOMMENDATIONS  
RISK  
SCHEDULING  
#STATISTICAL ANALYSIS  
#STOCHASTIC PROCESSES  
STRATEGY  
SYNTHESIS  
SYSTEMS ENGINEERING  
THEORIES  
DECISIONS  
0410 0802 3402 3406  
RT COMMANDS  
CONTRACT MANAGEMENT  
DECISION MAKING  
JUDGMENTS  
LOGIC CIRCUITS  
#MANAGEMENT  
PROCUREMENT POLICY  
PROJECT PLANNING  
#SELECTION  
DECKS (FLOORS)  
USE FLOORS  
DECLINATION  
1303 1901 2103  
RT MAPPING  
#NAVIGATION  
DECODERS  
0701 0702 0801 0802  
RT BCH CODES  
CODERS  
DATA CONVERTERS  
DECODING  
DEMODULATORS  
TRANSLATORS  
DECODING  
0503 0702 0708 0802  
BT CODING  
RT BCH CODES  
DECODERS  
DEMODULATION  
DICTIONARIES  
INTERPRETATION  
TRANSLATING  
DECOMMUTATORS  
0701 0702 0708  
BT COMMUTATORS  
RT DATA LINKS  
DEMODULATORS  
ELECTRIC MOTORS  
GENERATORS  
PULSE CODE MODULATION  
TELEMETRY  
DECOMPOSITION  
0404 0602 3407  
NT AMMONOLYSIS  
GLYCOLYSIS  
HYDROGENOLYSIS  
NITROLYSIS  
PHOTODECOMPOSITION  
PHOTODISSOCIATION  
PHOTOLYSIS  
PROPELLANT DECOMPOSITION  
RADIOLYSIS  
RT ABLATION  
CHARRING  
#DAMAGE  
DEGRADATION  
DETERIORATION  
DISINTEGRATION  
DISSOCIATION  
ELECTROLYSIS  
OVERVOLTAGE  
STORAGE STABILITY  
THERMAL DISSOCIATION  
DECOMPRESSION  
USE PRESSURE REDUCTION  
DECOMPRESSION SICKNESS  
0401 0405 0408

# NASA THESAURUS (ALPHABETICAL LISTING)

## #DEFORMATION

UP BENDS (PHYSIOLOGY)  
 BT SICKNESSES  
 RT AEROEMBOLISM  
 ALTITUDE SICKNESS  
 BAROTRAUMA  
 DIVING (UNDERWATER)  
 DECONDITIONING  
 3407  
 RT #LEARNING  
 #REFLEXES  
 DECONGESTANTS  
 0403 0405 1808  
 BT #DRUGS  
 DECONTAMINATION  
 0411 0504 0505 0602  
 RT SPACECRAFT STERILIZATION  
 RT AIR PURIFICATION  
 ANTISEPTICS  
 CARBON DIOXIDE CONCENTRATION  
 CARBON DIOXIDE REMOVAL  
 CLEANING  
 CONTAMINANTS  
 CONTAMINATION  
 DEWAXING  
 DISPOSAL  
 DISSIPATION  
 ELIMINATION  
 EXHAUSTING  
 EXTENSIONS  
 FOOD  
 #POLLUTION  
 PURGING  
 PURIFICATION  
 PURITY  
 REDUCTION  
 SEPARATION  
 SPACECRAFT CONTAMINATION  
 STERILIZATION  
 WASHING  
 DECOUPLING  
 3407  
 RT SPIN DECOUPLING  
 RT COUPLING  
 RELEASING  
 DECOYS  
 3101 3105 3401  
 NT BALLISTIC MISSILE DECOYS  
 BLUE GOOSE MISSILE  
 QUAIL MISSILE  
 REENTRY DECOYS  
 RT #COUNTERMEASURES  
 DUMMIES  
 DECREMENTING  
 USE REDUCTION  
 DEDUCTION  
 3406  
 RT DERIVATION  
 INFERENCE  
 DEEP DRAWING  
 1704  
 RT BULGING  
 COLD DRAWING  
 COLD WORKING  
 EXPLOSIVE FORMING  
 MAGNETIC FORMING  
 #METAL WORKING  
 STRETCHING  
 DEEP SCATTERING LAYERS  
 1310 2301  
 RT ACOUSTIC SCATTERING  
 LAYERS  
 OCEANOGRAPHY  
 ORGANISMS  
 #SCATTERING  
 SOUND WAVES  
 UNDERWATER ACOUSTICS  
 DEEP SPACE  
 3009 3110  
 NT INTERPLANETARY SPACE  
 INTERSTELLAR SPACE  
 BT AEROSPACE ENVIRONMENTS  
 #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 RT CISLUNAR SPACE  
 FRICTIONLESS ENVIRONMENTS  
 SPACE  
 DEEP SPACE INSTRUMENTATION FACILITY  
 0703 0705 0706 0708 0709 0803  
 UP DSIIF (INSTRUMENTATION FACILITY)  
 BT GROUND STATIONS  
 #STATIONS  
 TRACKING STATIONS

RT DATA ACQUISITION  
 DATA TRANSMISSION  
 RADIO CONTROL  
 DEEP SPACE NETWORK  
 0709 1109  
 BT TRACKING NETWORKS  
 RT NETWORKS  
 SPACECRAFT TRACKING  
 DEER  
 0402 0404  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 #DEFECTS  
 1505 1704 2601 2603 3406  
 UP FLAWS  
 IMPERFECTIONS  
 NT AUDITORY DEFECTS  
 CRYSTAL DEFECTS  
 CRYSTAL DISLOCATIONS  
 EDGE DISLOCATIONS  
 FRENKEL DEFECTS  
 INCLUSIONS  
 POINT DEFECTS  
 SCREW DISLOCATIONS  
 SPEECH DEFECTS  
 SURFACE DEFECTS  
 VACANCIES (CRYSTAL DEFECTS)  
 RT CASTINGS  
 CAVITIES  
 CRACKS  
 CUMULATIVE DAMAGE  
 #DAMAGE  
 INHOMOGENEITY  
 IRREGULARITIES  
 LEAKAGE  
 PINHOLES  
 POROSITY  
 SCORING  
 VIGNETTING  
 VOIDS  
 X RAY ANALYSIS  
 DEFENDER PROJECT  
 3401 3409  
 BT #PROGRAMS  
 PROJECTS  
 DEFENSE  
 3401  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIR DEFENSE  
 ANTIMISSILE DEFENSE  
 CIVIL DEFENSE  
 MISSILE DEFENSE  
 PHYSIOLOGICAL DEFENSES  
 DEFENSE COMMUNICATIONS SATELLITE SYSTEM  
 0702 3401  
 BT #TELECOMMUNICATION  
 RT COMMUNICATION SATELLITES  
 DEFENSE COMMUNICATIONS SYSTEM  
 RADIO RELAY SYSTEMS  
 SPACE COMMUNICATION  
 DEFENSE COMMUNICATIONS SYSTEM (DCS)  
 0702 3401  
 RT MILITARY TECHNOLOGY  
 DEFENSE INDUSTRY  
 3401 3402  
 NT WEAPONS INDUSTRY  
 BT #INDUSTRIES  
 RT ANTIMISSILE DEFENSE  
 DEFENSE PROGRAM  
 MILITARY TECHNOLOGY  
 MISSILE DEFENSE  
 DEFENSE PROGRAM  
 3401  
 BT #PROGRAMS  
 RT AIR DEFENSE  
 CIVIL DEFENSE  
 DEFENSE INDUSTRY  
 MILITARY TECHNOLOGY  
 MISSILE DEFENSE  
 DEFINITION  
 1406 1902 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ACCURACY  
 DELINEATION  
 DESCRIPTIONS  
 DICTIONARIES  
 NOMENCLATURES

PRECISION  
 #RESOLUTION  
 DEFLAGRATION  
 0602 3301  
 BT #COMBUSTION  
 RT FIRES  
 FLASHBACK  
 DEFLATING  
 USE INFLATABLE STRUCTURES  
 PRESSURE REDUCTION  
 DEFLECTION  
 1308 1902 2311  
 RT BENDING  
 BENDING DIAGRAMS  
 CAMBER  
 #DEFORMATION  
 DIFFRACTION  
 DISPERSING  
 DISPLACEMENT  
 DISTORTION  
 ELASTIC DEFORMATION  
 FLEXING  
 MAXWELL-MOHR METHOD  
 REFLECTION  
 #REFRACTION  
 #SCATTERING  
 STRUCTURAL STRAIN  
 TEMPERATURE INVERSIONS  
 TORSION  
 #VARIATIONS  
 WAVE DISPERSION  
 YOKES  
 DEFLECTORS  
 0102 1201 1504  
 NT BLAST DEFLECTORS  
 FLAME DEFLECTORS  
 RT #ATTENUATORS  
 BAPPLES  
 DIFFUSERS  
 DIVERTERS  
 FLOW DEFLECTION  
 GUST ALLEVIATORS  
 #REFLECTORS  
 SAFETY DEVICES  
 #SHIELDING  
 SPOILERS  
 DEFLUORINATION  
 0403 0602  
 BT #CHEMICAL REACTIONS  
 RT FLUORINATION  
 HALOGENATION  
 DEFOCUSING  
 3407  
 BT FOCUSING  
 RT OPTICS  
 DEFOLIANTS  
 0404 0412  
 RT FOLIAGE  
 FORESTS  
 LEAVES  
 #PLANTS (BOTANY)  
 TREES (PLANTS)  
 #DEFORMATION  
 1502 1505 2308 3203 3407  
 NT AXIAL STRAIN  
 ELASTIC BENDING  
 ELASTIC BUCKLING  
 ELASTIC DEFORMATION  
 NUCLEAR DEFORMATION  
 PLASTIC DEFORMATION  
 STATIC DEFORMATION  
 TENSILE DEFORMATION  
 WAVE FRONT DEFORMATION  
 RT BENDING  
 BUCKLING  
 CAMBER  
 COLLAPSE  
 CORRUGATING  
 CREEP PROPERTIES  
 #DAMAGE  
 DEFLECTION  
 DEFORMETERS  
 DISPLACEMENT  
 DISTORTION  
 ELONGATION  
 FAILURE  
 FLEXING  
 FRACTURES (MATERIALS)  
 INDENTATION  
 #MECHANICAL PROPERTIES  
 SET  
 SKEWNESS

# DEFORMETERS

STIFFNESS  
STRUCTURAL FAILURE  
STRUCTURAL STRAIN  
TEMPERATURE INVERSIONS  
TOPOLOGY  
TORSION  
TWISTING  
VOLUMETRIC STRAIN  
WARPAGE  
WRINKLING  
DEFORMETERS  
1406 1409 1413 1505 3203  
BT #MEASURING INSTRUMENTS  
RT #DEFORMATION  
DIMENSIONAL MEASUREMENT  
EXTENSOMETERS  
#MECHANICAL MEASUREMENT  
STRAIN GAGES  
STRESS MEASUREMENT  
TENSOMETERS  
DEPROSTING  
0202 1504 2003 3303  
RT DEICING  
#HEATING  
ICE PREVENTION  
MELTING  
REFRIGERATING  
REFRIGERATORS  
DEGASSING  
0602 1704  
UP BAKEOUT  
NT DEOXYGENATION  
RT ABSORBERS (EQUIPMENT)  
AERATION  
BAKING  
CASTINGS  
DEOXIDIZING  
DESORPTION  
GAS EVOLUTION  
OCCLUSION  
OUTGASSING  
PURGING  
SCAVENGING  
SEPARATION  
DEGENERATION  
0404 0602 2406  
RT ATROPHY  
DETERIORATION  
NEGATIVE FEEDBACK  
DEGENERATIVE FEEDBACK  
USE NEGATIVE FEEDBACK  
DEGLUTITION  
0404  
RT EATING  
SWALLOWING  
DEGRADATION  
0404 1505 3406  
RT CHEMICAL ATTACK  
CORROSION  
CUMULATIVE DAMAGE  
CURING  
#DAMAGE  
#DECAY  
DECOMPOSITION  
DEPOLYMERIZATION  
DETERIORATION  
DISCOLORATION  
DURABILITY  
EMBRITTLEMENT  
EROSION  
OXIDATION  
PITTING  
PRESERVING  
BUSTING  
SCALE (CORROSION)  
THERMAL DISSOCIATION  
WEATHERING  
DEGREES OF FREEDOM  
1902 2308 2311  
UP MULTIPLE DEGREES OF FREEDOM  
RT EQUIPARTITION THEOREM  
EXPERIMENTAL DESIGN  
FACTOR ANALYSIS  
NULL HYPOTHESIS  
PHASE RULE  
QUALITY CONTROL  
SIGNIFICANCE  
THREE DIMENSIONAL MOTION  
TORQUE  
VARIANCE  
DEHP  
USE DIETHYL HYDROGEN PHOSPHITE (DEHP)

DEHUMIDIFICATION  
0504 0505 1504  
BT DRYING  
RT CONDENSING  
COOLING SYSTEMS  
DEHYDRATION  
#DIFFUSION  
HUMIDITY  
REFRIGERATING  
SEPARATION  
DEHYDRATED FOOD  
0505  
DEHYDRATED FOOD  
0505  
BT DEHYDRATION  
DRYING APPARATUS  
FOOD  
PRESERVING  
SPACE FLIGHT FEEDING  
DEHYDRATION  
0404 0602  
BT DRYING  
RT COLUMNS (PROCESS ENGINEERING)  
DEHUMIDIFICATION  
DEHYDRATED FOOD  
EVAPORATION  
HYDRATION  
PLASMOLYSIS  
SEPARATION  
THERMOGRAVIMETRY  
WATER LOSS  
DEHYDROGENATION  
0403 0602  
BT #CHEMICAL REACTIONS  
RT COLUMNS (PROCESS ENGINEERING)  
HYDROFORMING  
HYDROGENATION  
HYDROGENOLYSIS  
OXIDATION  
REDUCTION (CHEMISTRY)  
DEICERS  
0203 0603 1804 2003 3303  
UP DEICING SYSTEMS  
RT #AIRFOILS  
ANTIICING ADDITIVES  
DEICING  
HEATERS  
#HEATING EQUIPMENT  
ICE PREVENTION  
DEICING  
0203 0603 3303  
RT #AIRFOILS  
ANTIICING ADDITIVES  
DEPROSTING  
DEICERS  
HEATERS  
#HEATING EQUIPMENT  
ICE PREVENTION  
MELTING  
DEICING SYSTEMS  
USE DEICERS  
DEIMOS  
3008  
BT #CELESTIAL BODIES  
#SATELLITES  
RT HARS (PLANET)  
DEIONIZATION  
0603 0604  
BT #CHEMICAL REACTIONS  
RT ATOMIC RECOMBINATION  
DEMINEALIZING  
#EXCHANGING  
ION RECOMBINATION  
RADIATIVE RECOMBINATION  
SEPARATION  
SOFTENING  
DEKATONS  
USE COUNTERS  
DELANIATING  
3407  
RT PEELING  
SEPARATION  
DELAWARE  
1305  
BT UNITED STATES OF AMERICA  
DELAY  
0710 3404 3406  
RT DWELL  
HOLDING  
LATENESS  
STOPPING  
TIME LAG

# NASA THESAURUS (ALPHABETICAL LISTING)

TIME RESPONSE  
DELAY CIRCUITS  
0902  
NT PHANTASTROBS  
BT #CIRCUITS  
RT ACOUSTIC DELAY LINES  
CIRCULATORS (PHASE SHIFT CIRCUITS)  
COMPARATOR CIRCUITS  
DELAY LINES  
DELAY LINES (COMPUTER STORAGE)  
PHASE SHIFT CIRCUITS  
DELAY LINES  
0702 0801 0902 0905  
NT ACOUSTIC DELAY LINES  
DELAY LINES (COMPUTER STORAGE)  
RT DELAY CIRCUITS  
LINES  
TIME LAG  
DELAY LINES (COMPUTER STORAGE)  
0801  
BT #COMPUTER STORAGE DEVICES  
DELAY LINES  
RT DELAY CIRCUITS  
SHIFT REGISTERS  
DELETION  
3407  
BT ELIMINATION  
DELPIN AIRCRAFT  
USE L-29 JET TRAINER  
DELPT CAMERA  
1412  
BT CAMERAS  
#OPTICAL EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT  
DELINEATION  
1902 3406 3407  
RT #BOUNDARIES  
DEFINITION  
PROFILES  
DELIVERY  
3406  
RT #CARGO  
#CIRCULATION  
HAULING  
MATERIALS HANDLING  
OUTPUT  
RECEIVING  
#TRANSPORTATION  
TRUCKS  
DELRIN (TRADEMARK)  
1809 1810  
RT #RESINS  
DELTA ANTENNAS  
0901  
BT ANTENNAS  
#CONDUCTORS  
RT ANTENNA DESIGN  
RESONATORS  
#TRANSMISSION LINES  
DELTA DAGGER AIRCRAFT  
USE F-102 AIRCRAFT  
DELTA DART AIRCRAFT  
USE F-106 AIRCRAFT  
DELTA PUNCTION  
1902  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
REAL VARIABLES  
DELTA LAUNCH VEHICLE  
3103 3105 3110  
BT #LAUNCH VEHICLES  
RT BEACON EXPLORER A  
ESSA 1 SATELLITE  
ESSA 2 SATELLITE  
ESSA 3 SATELLITE  
ESSA 4 SATELLITE  
ESSA 5 SATELLITE  
ESSA 6 SATELLITE  
ESSA 7 SATELLITE  
ESSA 8 SATELLITE  
ESSA 9 SATELLITE  
EXPLORER 10 SATELLITE  
EXPLORER 12 SATELLITE  
EXPLORER 14 SATELLITE  
EXPLORER 15 SATELLITE  
EXPLORER 17 SATELLITE  
EXPLORER 18 SATELLITE  
EXPLORER 21 SATELLITE  
EXPLORER 26 SATELLITE  
EXPLORER 28 SATELLITE  
EXPLORER 29 SATELLITE  
EXPLORER 32 SATELLITE

# NASA THESAURUS (ALPHABETICAL LISTING)

EXPLORER 33 SATELLITE  
 EXPLORER 38 SATELLITE  
 EXPLORER 42 SATELLITE  
 EXPLORER 43 SATELLITE  
 OSO-D  
 OSO-1  
 OSO-2  
 OUTER PLANETS EXPLORERS  
 PIONEER 6 SPACE PROBE  
 PIONEER 7 SPACE PROBE  
 SYNCOM 1 SATELLITE  
 SYNCOM 2 SATELLITE  
 SYNCOM 3 SATELLITE  
 TIROS 2 SATELLITE  
 TIROS 3 SATELLITE  
 TIROS 4 SATELLITE  
 TIROS 5 SATELLITE  
 TIROS 6 SATELLITE  
 TIROS 7 SATELLITE  
 TIROS 8 SATELLITE  
 TIROS 9 SATELLITE  
 TIROS 10 SATELLITE  
 DELTA MODULATION  
 0705 1002  
 BT #MODULATION  
 PULSE CODE MODULATION  
 PULSE MODULATION  
 RT PULSE COMMUNICATION  
 DELTA WINGS  
 0104  
 UF TRIANGULAR WINGS  
 BT #AIRFOILS  
 LOW ASPECT RATIO WINGS  
 #PLANFORMS  
 SWEEP WINGS  
 SWEEPBACK WINGS  
 WING PLANFORMS  
 WINGS  
 RT ABROW WINGS  
 AVRO 707 AIRCRAFT  
 CARET WINGS  
 PD 2 AIRCRAFT  
 GA-5 AIRCRAFT  
 VARIABLE SWEEP WINGS  
 DEMAGNETIZATION  
 2307  
 RT #MAGNETIC FIELDS  
 REDUCTION  
 DEMAND (ECONOMICS)  
 1905 3402  
 BT ECONOMICS  
 RT CONSUMPTION  
 SUPPLYING  
 DEMINERALIZING  
 1704 1806 3407  
 RT CRYSTALLIZATION  
 DEIONIZATION  
 DESALINIZATION  
 DISTILLATION  
 ION EXCHANGING  
 OSMOSIS  
 PURIFICATION  
 SEPARATION  
 SOFTENING  
 WATER TREATMENT  
 DEMODULATION  
 1002  
 RT AMPLITUDE MODULATION  
 DECODING  
 DEMODULATORS  
 DETECTORS  
 FREQUENCY MODULATION  
 HETERODYNING  
 INTERMODULATION  
 #MODULATION  
 PHASE MODULATION  
 PULSE MODULATION  
 REMODULATION  
 #TELECOMMUNICATION  
 DEMODULATORS  
 0905  
 RT FREQUENCY COMPRESSION DEMODULATORS  
 PHASE DEMODULATORS  
 PHASE LOCK DEMODULATORS  
 RT AMPLITUDE MODULATION  
 DECODERS  
 DECOMPUTATORS  
 DEMODULATION  
 FREQUENCY MODULATION  
 #MODULATION  
 MODULATORS  
 PHASE MODULATION

PULSE MODULATION  
 DEMONSTRATION  
 USE PROVING  
 DEMULCENTS  
 0401 0403 0405  
 BT #DRUGS  
 DENDRITIC CRYSTALS  
 2601  
 BT #CRYSTALS  
 RT ISOTROPY  
 NEEDLES  
 WHISKERS (SINGLE CRYSTALS)  
 DENITROGENATION  
 0401 0403 0404  
 BT #CHEMICAL REACTIONS  
 RT NITRATION  
 DENMARK  
 1305  
 RT EUROPE  
 GREENLAND  
 NATIONS  
 DENSIIFICATION  
 1502 1504 3407  
 BT #PRESSURE  
 RT AGGLOMERATION  
 COMPACTING  
 COMPRESSING  
 CONSOLIDATION  
 PRESSURIZING  
 DENSITOMETERS  
 1406 1407 2310  
 RT MICRODENSITOMETERS  
 BT #MEASURING INSTRUMENTS  
 RT GRAVIMETERS  
 #OPTICAL EQUIPMENT  
 #OPTICAL MEASUREMENT  
 OPTICAL MEASURING INSTRUMENTS  
 PHOTOMETERS  
 TRANSMISSOMETERS  
 DENSITY  
 0703 1308 1902 2311 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ATMOSPHERIC DENSITY  
 ATOM CONCENTRATION  
 DENSITY (MASS/VOLUME)  
 #DENSITY (NUMBER/VOLUME)  
 FLUX DENSITY  
 OPTICAL DENSITY  
 POROSITY  
 RANKINE-HUGONOT RELATION  
 DENSITY (MASS/VOLUME)  
 0104 0603 1203  
 RT ATMOSPHERIC DENSITY  
 GAS DENSITY  
 SPACE DENSITY  
 RT ABSORPTANCE  
 ABSORPTIVITY  
 BULK MODULUS  
 BUOYANCY  
 COMPRESSIBILITY  
 DENSITY  
 DENSITY MEASUREMENT  
 HYDROMETERS  
 INTERNAL FRICTION  
 ISOPYCNIC PROCESSES  
 LEWIS NUMBERS  
 OPACITY  
 PERMEABILITY  
 PHYSICAL PROPERTIES  
 POROSITY  
 PYCNOMETERS  
 STOPPING POWER  
 TRANSMISSIVITY  
 TRANSMITTANCE  
 TRANSPARENCE  
 VISCOSITY  
 VOID RATIO  
 WEIGHT MEASUREMENT  
 #DENSITY (NUMBER/VOLUME)  
 0104 0603 1203 3009  
 RT ELECTRON DENSITY (CONCENTRATION)  
 ELECTRON DENSITY PROFILES  
 ELECTRON DISTRIBUTION  
 ION DENSITY (CONCENTRATION)  
 IONOSPHERIC ELECTRON DENSITY  
 IONOSPHERIC ION DENSITY  
 MAGNETOSPHERIC ELECTRON DENSITY  
 MAGNETOSPHERIC ION DENSITY  
 MAGNETOSPHERIC PROTON DENSITY  
 METEOROID CONCENTRATION

# DEPERSONALIZATION

PACKING DENSITY  
 PARTICLE DENSITY (CONCENTRATION)  
 PLASMA DENSITY  
 PROTON DENSITY (CONCENTRATION)  
 SPACE DENSITY  
 RT ATMOSPHERIC DENSITY  
 DENSITY  
 ELECTRON DISTRIBUTION  
 DENSITY (RATE/AREA)  
 USE FLUX DENSITY  
 DENSITY DISTRIBUTION  
 2311 3408  
 RT BAROCLINIC WAVES  
 FOKKER-PLANCK EQUATION  
 MAXWELL-BOLTZMANN DENSITY FUNCTION  
 SHOCK DISCONTINUITY  
 TAYLOR INSTABILITY  
 DENSITY MEASUREMENT  
 0601 1409 2311 3407  
 RT X RAY DENSITY MEASUREMENT  
 RT CHEMICAL ANALYSIS  
 DENSITY (MASS/VOLUME)  
 HYDROMETERS  
 MEASUREMENT  
 #MECHANICAL MEASUREMENT  
 DENTAL CALCULI  
 0404 0405  
 BT CALCULI  
 #DEPOSITS  
 RT TEETH  
 TOOTH DISEASES  
 DENTISTRY  
 0405  
 BT #MEDICAL SCIENCE  
 RT #MEDICAL EQUIPMENT  
 TEETH  
 TOOTH DISEASES  
 DEOXIDIZING  
 0603  
 BT #CHEMICAL REACTIONS  
 REDUCTION (CHEMISTRY)  
 RT DEGASSING  
 DEOXIFICATION  
 DEOXYGENATION  
 SCAVENGING  
 DEOXIFICATION  
 0403 0602  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DEOXIDIZING  
 DEOXYGENATION  
 DEOXYGENATION  
 0602  
 BT DEGASSING  
 RT DEOXIDIZING  
 DEOXIFICATION  
 REDUCTION  
 SEPARATION  
 DEOXYRIBONUCLEIC ACID  
 0402 0403 0406 0409 1805 1808  
 UF DNA  
 BT #ACIDS  
 RT THYMIDINE  
 THYMINE  
 DEPENDENCE  
 1902 1905 3402 3408  
 UF DEPENDENCY  
 RT SPATIAL DEPENDENCIES  
 TIME DEPENDENCE  
 RT GROUP DYNAMICS  
 SOCIOLOGY  
 DEPENDENCY  
 USE DEPENDENCE  
 DEPENDENT VARIABLES  
 1902 1905  
 UF UNKNOWNNS  
 BT #ANALYSIS (MATHEMATICS)  
 RT COMPLEX VARIABLES  
 INDEPENDENT VARIABLES  
 PARAMETERIZATION  
 REAL VARIABLES  
 VARIABLE  
 DEPERSONALIZATION  
 0408 0410 3402 3406  
 RT ARTIFICIAL INTELLIGENCE  
 AUTOMATA THEORY  
 #AUTOMATIC CONTROL  
 AUTOMATION  
 CYBERNETICS  
 DETACHMENT  
 DISORDERS

# DEPLETION

MAN MACHINE SYSTEMS  
MECHANIZATION  
PERSONALITY  
#PERSONNEL  
DEPLETION  
2602 3407  
RT CONSUMPTION  
DEPRECIATION  
DISSIPATION  
ELIMINATION  
EXHAUSTION  
EXPLOITATION  
LIFE (DURABILITY)  
LOSSES  
REDUCTION  
REMOVAL  
#RESOURCES  
UTILIZATION  
DEPLOYMENT  
0208 3401  
RT GAME THEORY  
LOGISTICS  
OPERATIONS  
#PERSONNEL  
STRATEGY  
TACTICS  
DEPOLARIZATION  
0302 0604 0705 2304 2306 2307 2402  
(EXCLUDES CONSIDERATION OF OPTICAL  
DEPOLARIZATION AND PARTICLE SPIN  
DISALIGNMENT)  
UP DEPOLARIZERS  
RT ELECTROLYTIC POLARIZATION  
ELECTROPHYSIOLOGY  
POLARIZATION (CHARGE SEPARATION)  
REDUCTION  
SPIKE POTENTIALS  
DEPOLARIZERS  
USE DEPOLARIZATION  
DEPOLYMERIZATION  
0403 0602 1810  
BT #CHEMICAL REACTIONS  
RT DEGRADATION  
DETERIORATION  
POLYMERIZATION  
#DEPOSITION  
0604 1504 1802  
UP ACCRETION  
NT ANODIZING  
ELECTRODEPOSITION  
ELECTROPLATING  
VACUUM DEPOSITION  
VAPOR DEPOSITION  
RT ACCUMULATIONS  
COAGULATION  
COATING  
#COATINGS  
#DEPOSITS  
ELECTROFORMING  
ELECTRON BOMBARDMENT  
#FORMING TECHNIQUES  
FOULING  
METAL COATINGS  
PLATING  
PRECIPITATION (CHEMISTRY)  
SEDIMENTS  
SEPARATION  
SETTLING  
SPUTTERING  
#DEPOSITS  
0603 1306 1806  
(EXCLUDES BANK MINERAL AND GEOLOGICAL  
DEPOSITS)  
NT CALCULI  
CRYODEPOSITS  
DENTAL CALCULI  
RT #COATINGS  
CORROSION  
CRUDE OIL  
#DEPOSITION  
PLATING  
SEDIMENTS  
SLUDGE  
DEPRECIATION  
0402  
RT DEPLETION  
DETERIORATION  
INVESTMENTS  
LIFE (DURABILITY)  
WEAR  
DEPRESSANTS  
0403 0405

NT CENTRAL NERVOUS SYSTEM DEPRESSANTS  
RT ANESTHESIOLOGY  
DEPRESSION  
0405 0410 1308 2003 2311 3402 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DETACHMENT  
DISORDERS  
EMOTIONS  
INTROVERSION  
LETHARGY  
LOW PRESSURE  
NEUROTIC DEPRESSION  
PSYCHOTIC DEPRESSION  
RECESSION  
SCHIZOPHRENIA  
TECTONICS  
TOPOGRAPHY  
DEPRESSURIZATION  
USE PRESSURE REDUCTION  
DEPRIVATION  
0404 0410  
NT SENSORY DEPRIVATION  
SLEEP DEPRIVATION  
WATER DEPRIVATION  
RT CONFINING  
ISOLATION  
#STRESS (PHYSIOLOGY)  
DEPTH  
1902 3408  
BT #DIMENSIONS  
RT DISTANCE  
HEIGHT  
THICKNESS  
DEPTH MEASUREMENT  
1406  
RT BATHYMETERS  
CORE SAMPLING  
DISTANCE MEASURING EQUIPMENT  
MEASUREMENT  
#MECHANICAL MEASUREMENT  
SOUNDING  
DEPTH PERCEPTION  
USE SPACE PERCEPTION  
DERIVATION  
1902  
RT DEDUCTION  
INDUCTION  
ORIGINS  
PARAMETERIZATION  
SOURCES  
DERIVATION CALCULUS  
USE DIFFERENTIAL CALCULUS  
DERMATITIS  
0405 0408 0411  
NT CONTACT DERMATITIS  
BT #DISEASES  
INFECTIOUS DISEASES  
RT DERMATOLOGY  
RADIATION HAZARDS  
RADIATION SICKNESS  
SKIN (ANATOMY)  
DERMATOLOGY  
0404 0405  
BT #MEDICAL SCIENCE  
RT CONTACT DERMATITIS  
DERMATITIS  
SKIN (ANATOMY)  
DESALINIZATION  
0403 0603 3407  
RT DEMINERALIZING  
DISTILLATION  
OSMOSIS  
PURIFICATION  
SALINITY  
VAPORIZING  
WATER TREATMENT  
DESATURATION  
0403 0602  
RT SATURATION  
DESCALING  
1504 1702 1704  
RT CHEMICAL CLEANING  
CLEANING  
#METAL FINISHING  
SCALE (CORROSION)  
SEPARATION  
SHOT PEENING  
DESCENT  
0201 3006  
NT PARACHUTE DESCENT

# NASA THESAURUS (ALPHABETICAL LISTING)

RT APPROACH  
ASCENT  
DESCENT TRAJECTORIES  
FLIGHT PATHS  
GLIDING  
REENTRY  
DESCENT PROPULSION SYSTEMS  
2808 3106  
BT PROPULSION SYSTEM CONFIGURATIONS  
RT #PROPULSION  
SPACECRAFT PROPULSION  
DESCENT TRAJECTORIES  
0101 1904  
NT REENTRY TRAJECTORIES  
BT #TRAJECTORIES  
RT ASCENT TRAJECTORIES  
#ATMOSPHERIC ENTRY  
BALLISTIC TRAJECTORIES  
COASTING FLIGHT  
DESCENT  
FALLING  
FLIGHT MECHANICS  
MANNED REENTRY  
MIDCOURSE TRAJECTORIES  
MISSILE TRAJECTORIES  
PARABOLIC FLIGHT  
REENTRY  
REENTRY GUIDANCE  
SPACECRAFT TRAJECTORIES  
TERMINAL GUIDANCE  
DESCRIPTIONS  
3406  
RT DEFINITION  
NOMENCLATURES  
REPRESENTATIONS  
DESCRIPTIVE GEOMETRY  
1902  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT ANALYTIC GEOMETRY  
ENGINEERING DRAWINGS  
LAYOUTS  
PROJECTION  
PROJECTIVE GEOMETRY  
TORUSES  
DESENSITIZING  
0602 0603  
RT CORROSION PREVENTION  
DESERT ADAPTATION  
0404 0408  
BT #ADAPTATION  
RT SURVIVAL  
DESERTS  
1305  
NT LIBYAN DESERT  
BT EARTH RESOURCES  
RT CLIMATOLOGY  
LAND  
TOPOGRAPHY  
DESICCANTS  
0603 1804 1808  
RT ABSORBENTS  
ADSORBENTS  
DESICCATION  
USE DRYING  
DESICCATORS  
0603 1804  
BT DRYING APPARATUS  
#SEPARATORS  
DESIGN  
0101 0102 1001 1106 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP TAILORING  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT DESIGN  
AMPLIFIER DESIGN  
ANTENNA DESIGN  
COMPUTER DESIGN  
COMPUTERIZED DESIGN  
CONSTRUCTION  
#DIMENSIONS  
DRAFTING MACHINES  
ENGINE DESIGN  
ENGINEERING DRAWINGS  
EQUIPMENT SPECIFICATIONS  
ESTIMATING  
EXPERIMENTAL DESIGN  
FACTORIAL DESIGN  
HELICOPTER DESIGN  
LAYOUTS

# NASA THESAURUS (ALPHABETICAL LISTING)

LENS DESIGN  
 LOGIC DESIGN  
 MISSILE DESIGN  
 NOZZLE DESIGN  
 #OPTIMIZATION  
 PLANNING  
 PRODUCT DEVELOPMENT  
 REACTOR DESIGN  
 RELIABILITY  
 #RESEARCH  
 RESEARCH AND DEVELOPMENT  
 ROCKET ENGINE DESIGN  
 SPACECRAFT DESIGN  
 STRUCTURAL DESIGN  
 SYSTEMS ENGINEERING  
 DESIGN OF EXPERIMENTS  
 USE EXPERIMENTAL DESIGN  
 DESORPTION  
 0602  
 RT ABSORPTION  
 ADSORPTION  
 DEGASSING  
 EVOLUTION (LIBERATION)  
 OUTGASSING  
 PERMEATING  
 SEPARATION  
 SUBLIMATION  
 DESPINNING  
 USE SPIN REDUCTION  
 DESTABILIZATION  
 2102 3407  
 RT SPIN REDUCTION  
 TUMBLING MOTION  
 DESTROYER AIRCRAFT  
 USE B-66 AIRCRAFT  
 DESTRUCTION  
 1108 1505 3102 3401 3407  
 RT ABORTED MISSIONS  
 ACCIDENTS  
 BREAKING  
 CRACKING (FRACTURING)  
 #DAMAGE  
 DESTRUCTIVE TESTS  
 FAILURE  
 FATIGUE (MATERIALS)  
 FLIGHT HAZARDS  
 FLIGHT SAFETY  
 LETHALITY  
 #STRESSES  
 DESTRUCTIVE TESTS  
 1108 3404  
 RT COMPRESSION TESTS  
 CORROSION TESTS  
 DESTRUCTION  
 DROP TESTS  
 FATIGUE TESTS  
 IMPACT TESTS  
 LOAD TESTS  
 MATERIALS TESTS  
 #NONDESTRUCTIVE TESTS  
 TENSILE TESTS  
 TESTS  
 #VIBRATION TESTS  
 WEAR TESTS  
 DESULFURIZING  
 0602  
 BT #CHEMICAL REACTIONS  
 RT REFINING  
 ROASTING  
 DESYNCHRONIZED SLEEP  
 USE RAPID EYE MOVEMENT STATE  
 DETACHMENT  
 0408 0410  
 RT ANXIETY  
 BOREDOM  
 DEPERSONALIZATION  
 DEPRESSION  
 DISORDERS  
 DISORIENTATION  
 EMOTIONAL FACTORS  
 HUMAN BEHAVIOR  
 INHIBITION  
 INTROVERSION  
 LETHARGY  
 #PSYCHOLOGY  
 PSYCHOSES  
 #DETECTION  
 0701 0705 2203 3401 0404  
 UP SENSING  
 NT AIRCRAFT DETECTION  
 CORRELATION DETECTION  
 FOREST FIRE DETECTION

HIGH ALTITUDE NUCLEAR DETECTION  
 MISSILE DETECTION  
 RADAR DETECTION  
 SIGNAL DETECTION  
 TARGET RECOGNITION  
 ACQUISITION  
 DATA ACQUISITION  
 DETECTORS  
 EARLY WARNING SYSTEMS  
 EXAMINATION  
 #EXPLOSION  
 GAS DETECTORS  
 IDENTIFYING  
 INSPECTION  
 INTELLIGENCE  
 MARKING  
 MEASUREMENT  
 MISSILE SIGNATURES  
 OBSERVATION  
 POSITION (LOCATION)  
 RADAR SIGNATURES  
 SIGNATURE ANALYSIS  
 #SIGNATURES  
 SOUND LOCALIZATION  
 SOUND RANGING  
 SURVEILLANCE  
 TARGET ACQUISITION  
 #TARGETS  
 #TRACKING (POSITION)  
 WARNING  
 #WARNING SYSTEMS  
 DETECTORS  
 0701 0904 0905 1409 1504 2203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIRCRAFT DETECTION  
 ANALYZERS  
 AUTODYNES  
 CHARACTER RECOGNITION  
 CORRELATION DETECTION  
 DEMODULATION  
 #DETECTION  
 #DISPLAY DEVICES  
 FOREST FIRE DETECTION  
 GAS DETECTORS  
 #HAZARDS  
 INDICATING INSTRUMENTS  
 INSTRUMENT RECEIVERS  
 LIFE DETECTORS  
 #MEASURING INSTRUMENTS  
 MINE DETECTORS  
 MONITORS  
 PHASE DETECTORS  
 RADIATION DETECTORS  
 RADIATION MEASURING INSTRUMENTS  
 READERS  
 RECEIVERS  
 REMOTE SENSORS  
 SAFETY  
 SIGNAL DETECTION  
 SIGNAL DETECTORS  
 #TELECOMMUNICATION  
 #TRANSDUCERS  
 VENTURI TUBES  
 WARNING  
 #WARNING SYSTEMS  
 DETERGENTS  
 0403 0505 0603 1808  
 RT VERSENE  
 RT ETHYLENEDIAMINETETRAACETIC ACIDS  
 LUBRICATING OILS  
 SOAPS  
 SURFACTANTS  
 DETEIORATION  
 0404 0411 0505 1702 3407  
 RT ATROPHY  
 CORROSION  
 #DAMAGE  
 #DECAY  
 DECOMPOSITION  
 DEGENERATION  
 DEGRADATION  
 DEPOLYMERIZATION  
 DEPRECIATION  
 DISINTEGRATION  
 DURABILITY  
 EROSION  
 FAILURE  
 RUSTING  
 SYSTEM FAILURES  
 WEAR

DEUTERIUM PLASMA  
 WEATHERING  
 DETERMINANTS  
 1902  
 BT #ALGEBRA  
 RT LINEAR EQUATIONS  
 MATRICES (MATHEMATICS)  
 DETERMINATION  
 USE MEASUREMENT  
 DETONABLE GAS MIXTURES  
 0603 1203 3302  
 BT GAS MIXTURES  
 #GASES  
 #MIXTURES  
 SOLUTIONS  
 RT CHEMICAL EXPLOSIONS  
 #FIRING (IGNITING)  
 FLAMMABILITY  
 FLAMMABLE GASES  
 GAS EXPLOSIONS  
 GAS-GAS INTERACTIONS  
 OXYACETYLENE  
 DETONATION  
 0603 3301 3302  
 UP CHAPMAN-JOUGET FLAME  
 RT CHEMICAL EXPLOSIONS  
 #COMBUSTION  
 DETONATION WAVES  
 DISCHARGE  
 #EXPLOSIONS  
 #FIRING (IGNITING)  
 FLAME PROPAGATION  
 INITIATION  
 PERCUSSION  
 PRIMERS (EXPLOSIVES)  
 ROCKET FIRING  
 SHOCK WAVES  
 DETONATION WAVES  
 1203 3301 3302  
 BT #ELASTIC WAVES  
 SHOCK WAVES  
 RT COMBUSTIBLE FLOW  
 DETONATION  
 FLAME PROPAGATION  
 GAS EXPLOSIONS  
 SEISMIC WAVES  
 SOUND WAVES  
 WAVES  
 DETONATORS  
 3302  
 BT #EXPLOSIVE DEVICES  
 #IGNITERS  
 INITIATORS (EXPLOSIVES)  
 RT CAPS (EXPLOSIVES)  
 EXPLODING WIRES  
 EXPLOSIVES  
 PULMINATES  
 FUSES (ORDNANCE)  
 PRIMERS (EXPLOSIVES)  
 SODIUM AZIDES  
 DEUTERIDES  
 0603 1804 1808 2406  
 BT DEUTERIUM COMPOUNDS  
 #HYDROGEN COMPOUNDS  
 RT HYDRIDES  
 DEUTERIUM  
 0603 1807 2406  
 UP HYDROGEN 2  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN  
 HYDROGEN ISOTOPES  
 ISOTOPES  
 NUCLIDES  
 RT HEAVY WATER  
 HYDROGEN FUELS  
 HYDROGEN PLASMA  
 NUCLEAR FUELS  
 DEUTERIUM COMPOUNDS  
 0603 1804  
 NT DEUTERIDES  
 HEAVY WATER  
 BT #HYDROGEN COMPOUNDS  
 DEUTERIUM OXIDES  
 USE HEAVY WATER  
 DEUTERIUM PLASMA  
 2406 2502  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN  
 HYDROGEN PLASMA  
 #PLASMAS (PHYSICS)  
 RT DEUTERONS



# DEUTERON IRRADIATION

#PARTICLES  
DEUTERON IRRADIATION  
2403 2405  
BT ION IRRADIATION  
#IRRADIATION  
RT ALPHA PARTICLES  
CHARGED PARTICLES  
NUCLEAR FUSION  
#PARTICLES  
#PLASMAS (PHYSICS)  
PROTON IRRADIATION  
DEUTERONS  
2403 2405  
BT CHARGED PARTICLES  
ELEMENTARY PARTICLES  
#IONS  
NUCLEI (NUCLEAR PHYSICS)  
#PARTICLES  
RT ALPHA PARTICLES  
COSMIC RAYS  
DEUTERIUM PLASMA  
PHOTONAGNETIC EFFECTS  
#PLASMAS (PHYSICS)  
POMERANCHUK THEOREM  
PROTONS  
DEVELOPERS (PHOTOGRAPHY)  
USE PHOTOGRAPHIC DEVELOPERS  
DEVELOPMENT  
3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #EVOLUTION (DEVELOPMENT)  
EXPLOITATION  
#GROWTH  
LAND USE  
MANAGEMENT PLANNING  
MISSILE DESIGN  
PERSONNEL DEVELOPMENT  
PHOTOGRAPHIC DEVELOPERS  
PRODUCT DEVELOPMENT  
URBAN DEVELOPMENT  
DEVIATION  
1902 3406 3407  
RT ABERRATION  
#ABNORMALITIES  
ASYMMETRY  
DISPERSION  
DISTORTION  
DIVERGENCE  
DRIFT  
ECCENTRICITY  
HETEROGENEITY  
IRREGULARITIES  
#VARIATIONS  
DEVICES  
0902 0905 0906 1601 2303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ALPHA PLASMA DEVICES  
ANTISKID DEVICES  
ERROR CORRECTING DEVICES  
#EXPLOSIVE DEVICES  
LIFT DEVICES  
#LIFTING BODIES  
MECHANICAL DEVICES  
POSITIONING DEVICES (MACHINERY)  
SAFETY DEVICES  
SELF ERECTING DEVICES  
SELF REPAIRING DEVICES  
SOLID STATE DEVICES  
TRAINING DEVICES  
DEVITRIFICATION  
USE CRYSTALLIZATION  
DEW  
1203 2003 3304  
BT PRECIPITATION (METEOROLOGY)  
RT FROST  
WATER VAPOR  
DEWAR SYSTEMS  
USE CRYOGENIC EQUIPMENT  
DEWAXING  
0602 3404  
RT DECONTAMINATION  
REFINING  
DEWETTING  
USE DRYING  
DEXTRANS  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES

POLYSACCHARIDES  
SUGARS  
DH 106 AIRCRAFT  
USE COMET 4 AIRCRAFT  
DH 108 AIRCRAFT  
0201 0204  
UF DE HAVILLAND DH 108 AIRCRAFT  
BT DE HAVILLAND AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
TAILLESS AIRCRAFT  
DH 110 AIRCRAFT  
0204  
UF DE HAVILLAND DH 110 AIRCRAFT  
SEA VIXEN AIRCRAFT  
BT ATTACK AIRCRAFT  
DE HAVILLAND AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
DH 112 AIRCRAFT  
0207  
UF DE HAVILLAND DH 112 AIRCRAFT  
DE HAVILLAND VENOM AIRCRAFT  
VENOM AIRCRAFT  
BT DE HAVILLAND AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
DH 115 AIRCRAFT  
0207  
UF DE HAVILLAND DH 115 AIRCRAFT  
VAMPIRE AIRCRAFT  
BT DE HAVILLAND AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
TRAINING AIRCRAFT  
DH 121 AIRCRAFT  
0204  
UF DE HAVILLAND DH 121 AIRCRAFT  
TRIDENT AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
DE HAVILLAND AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOFAN AIRCRAFT  
DH 125 AIRCRAFT  
0204  
UF DE HAVILLAND DH 125 AIRCRAFT  
HS-125 AIRCRAFT  
JET DRAGON AIRCRAFT  
BT DE HAVILLAND AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
DHC 4 AIRCRAFT  
0204  
UF AC-1 AIRCRAFT  
CARIBOU AIRCRAFT  
CV-2 AIRCRAFT  
DE HAVILLAND DHC 4 AIRCRAFT  
BT DE HAVILLAND AIRCRAFT  
MONOPLANES  
SHORT TAKEOFF AIRCRAFT  
#TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
DHC 5 AIRCRAFT  
0204  
UF BUFFALO AIRCRAFT  
CV-7 AIRCRAFT  
DE HAVILLAND DHC 5 AIRCRAFT  
BT DE HAVILLAND AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
SHORT TAKEOFF AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
DIABATIC PROCESSES  
USE HEAT TRANSFER

# NASA TREASURY (ALPHABETICAL LISTING)

DIABETES MELLITUS  
0405  
BT #DISEASES  
RT CARBOHYDRATE METABOLISM  
ENZIME ACTIVITY  
INSULIN  
PANCREAS  
URINALYSIS  
DIADENE SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
FRENCH SATELLITE  
#SATELLITES  
DIAGNOSIS  
0401 0405 0503 0802  
RT ANALYZING  
ANESTHESIOLOGY  
BEHAVIOR  
CLINICAL MEDICINE  
#DISEASES  
EXAMINATION  
#INJURIES  
#MEDICAL EQUIPMENT  
#MEDICAL SCIENCE  
PATHOLOGY  
PROGNOSIS  
#PSYCHOLOGY  
PSYCHOMETRICS  
DIAGRAMS  
1902 3406  
NT BENDING DIAGRAMS  
CIRCUIT DIAGRAMS  
CREEP DIAGRAMS  
FEYNMAN DIAGRAMS  
HERTZSPRUNG-RUSSELL DIAGRAM  
MOLLIER DIAGRAM  
NYQUIST DIAGRAM  
PHASE DIAGRAMS  
S-N DIAGRAMS  
STRESS-STRAIN DIAGRAMS  
TEPHIGRAMS  
VENN DIAGRAMS  
RT #CHARTS  
DRAWINGS  
#GEOMETRY  
GRAPHIC ARTS  
VISUAL AIDS  
DIAL SATELLITE  
3107  
BT #SATELLITES  
SCIENTIFIC SATELLITES  
DIALYL COMPOUNDS  
1808  
BT #ALIPHATIC COMPOUNDS  
RT ALLYL COMPOUNDS  
DIALS  
0506 0701 0801 0904 0905 1406 1504  
UF POINTERS  
RT #DISPLAY DEVICES  
INDICATING INSTRUMENTS  
DIALYSIS  
0403 0602  
NT ELECTRODIALYSIS  
RT DIAPHRAGMS (MECHANICS)  
#DIFFUSION  
EXTRACTION  
PERMEATING  
SEPARATION  
DIAMAGNETISM  
2307 2604  
UF MEISSNER EFFECT  
BT #MAGNETIC PROPERTIES  
CURIE TEMPERATURE  
RT CYCLOTRON RESONANCE  
#ELECTRICAL PROPERTIES  
FERROMAGNETISM  
PARAMAGNETISM  
DIAMANT LAUNCH VEHICLE  
3103 3110  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
DIAMETERS  
1902  
BT #DIMENSIONS  
RT CIRCUMFERENCES  
#GEOMETRY  
RADIUS  
THICKNESS

# NASA THESAURUS (ALPHABETICAL LISTING)

## DIAMINES

0403 1808  
NT ETHYLENEDIAMINE  
GUANETHIDINE  
GUANIDINES  
TRIAMINOGUANIDINIUM AZIDE

## BT #AMINES

DIAMOND WINGS  
USE LOW ASPECT RATIO WINGS  
SWEEP WINGS

## DIAMONDS

0603 1504 1806 1807 2601  
NT METEORITIC DIAMONDS  
RT ABRASIVES  
CARBON  
SINGLE CRYSTALS

## DIAPHRAGM (ANATOMY)

0404  
BT #ANATOMY  
RESPIRATORY SYSTEM  
RT DIAPHRAGMS  
MUSCLES  
THORAX

## DIAPHRAGMS

0404 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UP BLADDER MECHANICS  
RT DIAPHRAGM (ANATOMY)  
ELECTROLYTIC CELLS  
#MEMBRANES

## DIAPHRAGMS (MECHANICS)

3203  
(NON-ANATOMICAL)  
RT CATHOLYTES  
DIALYSIS  
ELECTROLYTIC CELLS  
MEMBRANE STRUCTURES  
#MEMBRANES  
OPTICAL FILTERS  
OSMOSIS  
THIN PLATES  
THIN WALLS  
WEBS (SHEETS)  
WEBS (SUPPORTS)

## DIASTOLE

0401 0404 0405 0408  
BT #ANATOMY  
CARDIOVASCULAR SYSTEM  
RT BLOOD CIRCULATION  
BLOOD FLOW  
BLOOD PRESSURE  
HEART  
HEART RATE  
SYSTOLE

## DIATOMIC GASES

0603 1203 1807 2404  
BT #GASES  
MOLECULAR GASES  
POLYATOMIC GASES

## DIATOMIC MOLECULES

0603 1703 1807 2404  
BT #MOLECULES  
POLYATOMIC MOLECULES  
RT LOW MOLECULAR WEIGHTS  
HORSE POTENTIAL  
TRIATOMIC MOLECULES

## DIBASIC COMPOUNDS

0603 1703 1807  
RT CHEMICAL COMPOUNDS  
MONOMERS

## DIBORANE

0403 1804  
BT #BORON COMPOUNDS  
HYDRIDES  
#HYDROGEN COMPOUNDS

## DIBROMIDES

0403 0603 1804  
BT BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS

## DIBUTYL COMPOUNDS

1808  
BT #ALIPHATIC COMPOUNDS  
ALKYL COMPOUNDS

## DICARBOXYLIC ACIDS

0403 1808  
RT TEREPHTHALATE  
BT #ACIDS  
CARBOXYLIC ACIDS

## DICHLORIDES

0603 1804 1808  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS

## DICHLORODIPHENYLTRICHLOROETHANE

0412 1808  
UP DDT  
BT #ALIPHATIC COMPOUNDS  
CHLORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
INSECTICIDES  
#POISONS

## DICHOTOMIES

0404 3001 3405 3406  
BT #CLASSIFICATIONS  
HIERARCHIES

## DICHROISM

2306 2310  
RT COLOR  
ELECTROMAGNETIC PROPERTIES  
ISOCROMATICS  
LIGHT (VISIBLE RADIATION)  
PHOTOELASTICITY

## DICHROMATES

USE CHROMATES

## DICKE RADIONETERS

1406 2402  
UP DICKE TYPE RADIONETERS  
BT ACTINOMETERS

#MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
RADIONETERS

RT BOLOMETERS

THERMOPILES

## DICKE TYPE RADIONETERS

USE DICKE RADIONETERS

## DICTIONARIES

0803 3405  
UP GLOSSARIES  
RT CODING  
DECODING  
DEFINITION  
#DOCUMENTS  
TERMINOLOGY

## DIELDRIN

0403 0405 0412 1808  
BT INSECTICIDES  
#POISONS

## DIELECTRIC CONSTANT

USE DIELECTRIC PROPERTIES  
DIELECTRIC MATERIALS  
USE DIELECTRICS

## DIELECTRIC PERMEABILITY

2302 2304 3408  
BT PERMEABILITY  
RT MAGNETIC PERMEABILITY

## DIELECTRIC POLARIZATION

2304  
BT POLARIZATION (CHARGE SEPARATION)  
RT DIELECTRICS  
ELECTRETS  
ELECTRIC FIELDS

## DIELECTRIC PROPERTIES

0904 1504 1801 1805  
UP DIELECTRIC CONSTANT  
NT PERMITTIVITY  
BT #ELECTRICAL PROPERTIES  
RT ANTIFERROELECTRICITY  
CAPACITANCE  
FERROELECTRICITY  
SOMMERFELD WAVES

## DIELECTRICS

0904 1504 1801 1805 1809 1810 2304 2602  
UP DIELECTRIC MATERIALS  
NT RADONE MATERIALS  
RT BARIUM TITANATES  
CAPACITANCE SWITCHES  
CAPACITIVE FUEL GAGES  
CAPACITORS  
CERAMICS  
DIELECTRIC POLARIZATION  
ELECTRETS  
ELECTRIC CONDUCTORS  
ELECTRICAL INSULATION  
INSULATED STRUCTURES  
INSULATORS  
MAGNETOELECTRIC MEDIA  
SCREEN EFFECT  
SPARK GAPS

# DIFFERENTIAL EQUATIONS

## DIELS-ALDER REACTIONS

0403  
BT #CHEMICAL REACTIONS  
RT ORGANIC CHEMISTRY  
DIENCEPHALON  
0404  
BT #NERVOUS SYSTEM  
RT BRAIN

## DIENES

0403 1808  
NT BUTADIENE  
HEPTADIENE  
HEXADIENE  
BT #HYDROCARBONS

## DIES

1504 1704  
RT CASTING  
COINING  
#CUTTERS  
EXTRUDING  
MACHINE TOOLS  
MOLDS  
PUNCHES  
STAMPING

## DIESEL ENGINES

1504 3301 3304 3404  
BT #ENGINES  
INTERNAL COMBUSTION ENGINES  
RT LOCOMOTIVES

## DIETHYL ETHER

0403 1808  
BT ETHERS  
DIETHYL HYDROGEN PHOSPHITE (DEHP)  
0403 1808  
UP DEHP

## DIETS

0401 0405 0408  
RT FOOD  
NUTRITION  
SPACE FLIGHT FEEDING  
DIFFERENCE EQUATIONS

1902 1903

BT NUMERICAL ANALYSIS  
RT APPROXIMATION  
DIFFERENCES  
DIFFERENTIAL EQUATIONS  
EQUATIONS  
FINITE DIFFERENCE THEORY

## DIFFERENCES

1902 3406  
RT DIFFERENCE EQUATIONS  
DIVERGENCE  
FINITE DIFFERENCE THEORY  
#GRADIENTS  
#VARIATIONS

## DIFFERENTIAL ALGEBRA

USE DIFFERENTIAL CALCULUS  
MATRICES (MATHEMATICS)

## DIFFERENTIAL AMPLIFIERS

0906  
BT #AMPLIFIERS  
RT ANALOG COMPUTERS  
ERROR SIGNALS  
TRANSISTOR AMPLIFIERS

## DIFFERENTIAL ANALYZERS

USE ANALOG COMPUTERS  
DIFFERENTIAL CALCULUS

1902

UP DERIVATION CALCULUS  
DIFFERENTIAL ALGEBRA  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
RT DIFFERENTIAL EQUATIONS

## DIFFERENTIATION

DIFFERENTIATORS  
INTEGRAL CALCULUS  
LIMITS (MATHEMATICS)  
MINIMA  
#OPTIMIZATION

## DIFFERENTIAL EQUATIONS

REAL VARIABLES  
1902  
UP DIFFERENTIAL OPERATORS  
INTEGRAL DIFFERENTIAL EQUATIONS  
NT BIHARMONIC EQUATIONS  
BLASIU EQUATION  
BURGER EQUATION  
CAUCHY-RIEMANN EQUATIONS  
CHANDRASEKHAR EQUATION  
COSINE SERIES  
DUFFING DIFFERENTIAL EQUATION  
ELLIPTIC DIFFERENTIAL EQUATIONS

# DIFFERENTIAL GEOMETRY

EULER-CAUCHY EQUATIONS  
PALKNER-SKAN EQUATION  
POKKER-PLANCK EQUATION  
GAUSS EQUATION  
HELMHOLTZ VORTICITY EQUATION  
LAME WAVE EQUATIONS  
LIOUVILLE EQUATIONS  
MONGE-AMPERE EQUATION  
PARABOLIC DIFFERENTIAL EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
POISSON EQUATION  
VLASOV EQUATIONS  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT AIRY FUNCTION  
BESSEL FUNCTIONS  
BETHE-SALPETER EQUATION  
BOUNDARY VALUE PROBLEMS  
CALCULUS  
CALCULUS OF VARIATIONS  
CAUCHY PROBLEM  
DIFFERENCE EQUATIONS  
DIFFERENTIAL CALCULUS  
DIRICHLET PROBLEM  
EQUATIONS  
FLOQUET THEOREM  
FOURIER ANALYSIS  
FOURIER-BESSEL TRANSFORMATION  
FOURIER-BESSEL TRANSFORMATIONS  
FUNCTIONAL INTEGRATION  
GREEN FUNCTION  
HALF PLANES  
HANKEL FUNCTIONS  
HILL DETERMINANT  
INTEGRAL EQUATIONS  
LAGRANGE MULTIPLIERS  
LAME FUNCTIONS  
LAPLACE TRANSFORMATION  
LIAPUNOV FUNCTIONS  
LINEARITY  
LIPSCHITZ CONDITION  
MATHIEU FUNCTION  
MAXIMUM PRINCIPLE  
MILNE METHOD  
NEUMANN PROBLEM  
NONLINEAR EQUATIONS  
NONLINEARITY  
NUMERICAL ANALYSIS  
NUMERICAL INTEGRATION  
OPERATIONAL CALCULUS  
PFAFF EQUATION  
POTENTIAL THEORY  
RICCATI EQUATION  
RIEMANN WAVES  
RIESZ THEOREM  
SCHAUBER FIXPOINT THEOREM  
SCHMIDT METHOD  
STABILITY DERIVATIVES  
STURM-LIOUVILLE THEORY  
VECTOR ANALYSIS  
WHITTAKER FUNCTIONS  
DIFFERENTIAL GEOMETRY  
1902  
OF NONEUCLIDIAN GEOMETRY  
PROJECTIVE DIFFERENTIAL GEOMETRY  
NT LIE GROUPS  
RIEMANN MANIFOLD  
SPINOR GROUPS  
TENSOR ANALYSIS  
BT #GEOMETRY  
RT ANALYTIC GEOMETRY  
ANALYZING  
CURVATURE  
CURVES (GEOMETRY)  
INVARIANT IMBEDDINGS  
LOFTING  
RELATIVITY  
DIFFERENTIAL INTERFEROMETRY  
1405 2310  
BT INTERFEROMETRY  
DIFFERENTIAL OPERATORS  
USE DIFFERENTIAL EQUATIONS  
OPERATORS (MATHEMATICS)  
DIFFERENTIAL PRESSURE  
1406  
BT #PRESSURE  
RT PRESSURE DISTRIBUTION  
PRESSURE GRADIENTS  
PRESSURE MEASUREMENTS  
DIFFERENTIAL THERMAL ANALYSIS  
1408 3303 3304  
OF DTA (ANALYSIS)

BT ANALYZING  
HEAT TRANSMISSION  
TEMPERATURE GRADIENTS  
TEMPERATURE PROFILES  
DIFFERENTIATION  
1902 3406 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT TERMS LISTED  
BELOW)  
RT #ANATOMY  
DIFFERENTIAL CALCULUS  
DIFFERENTIATION (BIOLOGY)  
#DISCRIMINATION  
DIFFERENTIATION (BIOLOGY)  
0404  
RT #ANATOMY  
CYTOGENESIS  
DIFFERENTIATION  
EMBRYOLOGY  
MORPHOLOGY  
PHYSIOLOGY  
DIFFERENTIATORS  
0801 1413  
RT #CIRCUITS  
DIFFERENTIAL CALCULUS  
INTEGRATORS  
NETWORKS  
DIFFRACTION  
0710 2301 2306 2309 2310 2603 3407  
OF INTERFERENCE MONOCHROMATIZATION  
KIRCHHOFF-HUYGENS PRINCIPLE  
NT ELECTRON DIFFRACTION  
FRESNEL DIFFRACTION  
NEUTRON DIFFRACTION  
PULSE DIFFRACTION  
WAVE DIFFRACTION  
X RAY DIFFRACTION  
RT ATMOSPHERIC SCATTERING  
#ATTENUATION  
BRAGG ANGLE  
CRYSTAL OPTICS  
DEBYE-SCHERER METHOD  
DEFLECTION  
DIFFRACTOMETERS  
ECHELETTE GRATINGS  
#ELECTROMAGNETIC RADIATION  
HUYGENS PRINCIPLE  
ISOCROMATICS  
LAUE METHOD  
MOIRE EFFECTS  
MOAICS  
OPTICAL PROPERTIES  
RAY TRACING  
#REFRACTION  
#TRANSMISSION  
WAVE DISPERSION  
WAVE PROPAGATION  
DIFFRACTION GRATINGS  
USE GRATINGS (SPECTRA)  
DIFFRACTION PATHS  
0710 2306 2310 2402  
RT BRAGG ANGLE  
DIFFRACTION PROPAGATION  
ELECTRON TRAJECTORIES  
MULTIPATH TRANSMISSION  
OPTICAL PATHS  
PATHS  
SPHERICAL WAVES  
DIFFRACTION PATTERNS  
0710 2306 2310 2402 2403  
OF FRINGE PATTERNS  
NT KOSSEL PATTERN  
RAINBOWS  
BT #DISTRIBUTION (PROPERTY)  
RADIATION DISTRIBUTION  
RT DIFFRACTION PROPAGATION  
DIFFRACTOMETERS  
FRESNEL INTEGRALS  
FRESNEL REGION  
INTERFEROMETRY  
NULL ZONES  
OPTICS  
PATTERNS  
PHASE CONTRAST  
POMERANCHUK THEOREM  
SIGNAL FADING  
UNDERWATER OPTICS  
DIFFRACTION PROPAGATION  
0710 2306 2310 2402 2403  
BT #TRANSMISSION  
WAVE PROPAGATION  
RT DIFFRACTION PATHS

# NASA THESAURUS (ALPHABETICAL LISTING)

DIFFRACTION PATTERNS  
OPTICS  
PROPAGATION  
SPHERICAL WAVES  
UNDERWATER OPTICS  
DIFFRACTION TELESCOPES  
USE SPECTROSCOPIC TELESCOPES  
DIFFRACTOMETERS  
0710 1406 1411 2306 2310 2402 2403  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RT CHEMICAL ANALYSIS  
DIFFRACTION  
DIFFRACTION PATTERNS  
GONIOMETERS  
INTERFEROMETERS  
MACH-ZEHNDER INTERFEROMETERS  
#OPTICAL MEASUREMENT  
PHOTOGONIOMETERS  
SPECTROMETERS  
WAVE FRONT RECONSTRUCTION  
DIFFUSE RADIATION  
0710 2306 2310 2402  
OF LUNAR SCATTERING  
SPREAD REFLECTION  
RT HEAT TRANSFER  
LIGHT SCATTERING  
POINT SOURCES  
RADIATION  
SPECULAR REFLECTION  
DIFFUSERS  
0101 1201 1202 1203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
OF SHOCK DIFFUSERS  
RT AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
#ATTENUATORS  
BAPPLES  
BOUNDARY LAYER SEPARATION  
CEILINGS (ARCHITECTURE)  
CHOKES  
CONICAL FLOW  
DEFLECTORS  
#DIFFUSION  
DIVERTERS  
ENGINE INLETS  
EXHAUST DIFFUSERS  
HYPERSONIC INLETS  
INLET FLOW  
INLET NOZZLES  
LOUVERS  
MIXERS  
MUFFLERS  
POROUS WALLS  
PRESSURE RECOVERY  
#SEPARATORS  
SPRAYERS  
SUPERSONIC DIFFUSERS  
VANELESS DIFFUSERS  
VENTILATORS  
#DIFFUSION  
1202 1203 1507 2311 2502 2603 2803  
OF DIFFUSION EFFECT  
PERFUSION  
SELF DIFFUSION  
NT AMBIPOLAR DIFFUSION  
ATMOSPHERIC DIFFUSION  
ELECTRON DIFFUSION  
GASEOUS DIFFUSION  
GASEOUS SELF-DIFFUSION  
IONIC DIFFUSION  
MAGNETIC DIFFUSION  
MOLECULAR DIFFUSION  
PARTICLE DIFFUSION  
PLASMA DIFFUSION  
SELF PROPAGATION  
SPECIES DIFFUSION  
SURFACE DIFFUSION  
THERMAL DIFFUSION  
TURBULENT DIFFUSION  
RT ABSORPTION  
ADSORPTION  
AIR POLLUTION  
ATMOSPHERIC SCATTERING  
CHEMICAL ENGINEERING  
#CIRCULATION  
DEHUMIDIFICATION  
DIALYSIS  
DIFFUSERS

## NASA THESAURUS (ALPHABETICAL LISTING)

## DIGITAL RADAR SYSTEMS

DIFFUSION WAVES  
 DIFFUSIVITY  
 DILUTION  
 DISPERSING  
 DISPERSION  
 DISSIPATION  
 DISSOLVING  
 DISTILLATION  
 DRYING  
 EQUILIBRIUM  
 EVAPORATION  
 EXTRACTION  
 FICKS EQUATION  
 GAS-METAL INTERACTIONS  
 \*KINETIC THEORY  
 MIXING  
 OSMOSIS  
 PENETRATION  
 PERCOLATION  
 PERMEABILITY  
 PERMEATING  
 PROPAGATION  
 RADIAL FLOW  
 REFLECTION  
 \*SCATTERING  
 SELF ABSORPTION  
 SEPARATION  
 SOUND PROPAGATION  
 SOUND WAVES  
 SPRAYING  
 SPREADING  
 SUBLIMATION  
 \*SURFACE PROPERTIES  
 \*TRANSPORT PROPERTIES  
 DIFFUSION BONDING  
 USE #DIFFUSION WELDING  
 DIFFUSION COEFFICIENT  
 1203 2404 3304  
 NT SORET COEFFICIENT  
 BT \*COEFFICIENTS  
 RT ATTENUATION COEFFICIENTS  
 EQUILIBRIUM  
 FICKS EQUATION  
 GASEOUS DIFFUSION  
 LEWIS NUMBERS  
 MASS FLOW RATE  
 MOLECULAR DIFFUSION  
 PARTICLE DIFFUSION  
 DIFFUSION EFFECT  
 USE #DIFFUSION  
 DIFFUSION ELECTRODES  
 0604 0904 1504 1702 1802 2304 2308  
 BT \*ELECTRODES  
 RT ELECTROLYTIC CELLS  
 SEMICONDUCTOR DEVICES  
 DIFFUSION FLAMES  
 0101 1203 3301  
 BT FLAMES  
 RT BOUNDARY LAYER COMBUSTION  
 \*COMBUSTION  
 DIFFUSION PUMPS  
 1501  
 BT \*PUMPS  
 RT \*VACUUM APPARATUS  
 VACUUM PUMPS  
 DIFFUSION THEORY  
 0603 1203 1704 1902 2403 2404  
 RT DIFFUSION WAVES  
 FORKKER-PLANCK EQUATION  
 JACOBI INTEGRAL  
 \*KINETIC THEORY  
 KIRKENDALL EFFECT  
 MONTE CARLO METHOD  
 THEORIES  
 TRANSPORT THEORY  
 DIFFUSION WAVES  
 0710 2306 2310 2402 2403  
 RT #DIFFUSION  
 DIFFUSION THEORY  
 \*ELASTIC WAVES  
 ELECTRON DIFFUSION  
 ELECTROSTATIC WAVES  
 IONIC DIFFUSION  
 \*KINETIC THEORY  
 MOLECULAR DIFFUSION  
 PLASMA DIFFUSION  
 PLASMA WAVES  
 DIFFUSION WELDING  
 0602 1507 1704  
 UP DIFFUSION BONDING  
 BT PRESSURE WELDING  
 \*WELDING

RT #BONDING  
 BURNERS  
 KIRKENDALL EFFECT  
 METAL BONDING  
 METAL-METAL BONDING  
 DIFFUSIVITY  
 0101 1203 3301  
 RT #DIFFUSION  
 \*FLUID MECHANICS  
 \*IMPEDANCE  
 KIRKENDALL EFFECT  
 MOBILITY  
 PERMEABILITY  
 PHYSICAL PROPERTIES  
 RESISTANCE  
 SOLUBILITY  
 \*THERMODYNAMIC PROPERTIES  
 DIPLOURIDES  
 0603 1804 1808  
 NT CALCIUM FLUORIDES  
 FLUORSPAR  
 BT FLUORIDES  
 \*FLUORINE COMPOUNDS  
 HALIDES  
 \*HALOGEN COMPOUNDS  
 DIPLUORO COMPOUNDS  
 0603 1804 1808  
 NT PERFLUOROALKANE  
 POLYTETRAFLUOROETHYLENE  
 BT \*FLUORINE COMPOUNDS  
 FLUORO COMPOUNDS  
 \*HALOGEN COMPOUNDS  
 DIPLUOROURREA  
 0403 1808  
 BT AMIDES  
 \*AMINES  
 \*NITROGEN COMPOUNDS  
 UREAS  
 DIGESTING  
 0404 0405  
 RT EATING  
 ENZYMOLOGY  
 FOOD  
 LYSINE  
 MASTICATION  
 SOFTENING  
 \*DIGESTIVE SYSTEM  
 0404 0405 0408  
 NT APPENDIX (ANATOMY)  
 ESOPHAGUS  
 GASTROINTESTINAL SYSTEM  
 INTESTINES  
 MOUTH  
 PANCREAS  
 RECTUM  
 STOMACH  
 TEETH  
 TONGUE  
 RT ABDOMEN  
 ENZYME ACTIVITY  
 ENZYMOLOGY  
 GALL  
 ORGANS  
 SALIVA  
 DIGITAL COMMAND SYSTEMS  
 0503 0905  
 RT NUMERICAL CONTROL  
 REMOTE CONTROL  
 SERVOCONTROL  
 DIGITAL COMMUNICATION  
 USE PULSE COMMUNICATION  
 DIGITAL COMPUTERS  
 0801 1201  
 NT BURROUGHS 220 COMPUTER  
 CDC 160-A COMPUTER  
 CDC 1604 COMPUTER  
 CDC 3100 COMPUTER  
 CDC 3200 COMPUTER  
 CDC 3600 COMPUTER  
 CDC 3800 COMPUTER  
 CDC 6600 COMPUTER  
 CDC 8090 COMPUTER  
 CDC 6000 SERIES COMPUTERS  
 FERRANTI MERCURY COMPUTER  
 GENERAL ELECTRIC COMPUTERS  
 HONEYWELL DDP 116 COMPUTER  
 IBM 360 COMPUTER  
 IBM 650 COMPUTER  
 IBM 704 COMPUTER  
 IBM 709 COMPUTER  
 IBM 1130 COMPUTER  
 IBM 1401 COMPUTER

IBM 1410 COMPUTER  
 IBM 1620 COMPUTER  
 IBM 2250 COMPUTER  
 IBM 7030 COMPUTER  
 IBM 7040 COMPUTER  
 IBM 7044 COMPUTER  
 IBM 7070 COMPUTER  
 IBM 7074 COMPUTER  
 IBM 7090 COMPUTER  
 IBM 7094 COMPUTER  
 IBM 7360 COMPUTER  
 ILLIAC 4 COMPUTER  
 ILLIAC COMPUTERS  
 PDP 7 COMPUTER  
 PDP 8 COMPUTER  
 PDP 9 COMPUTER  
 PDP 10 COMPUTER  
 PDP COMPUTERS  
 PHILCO 2000 COMPUTER  
 RCA SPECTRA 70 COMPUTER  
 SDS 930 COMPUTER  
 SDS 9300 COMPUTER  
 SDS 900 SERIES COMPUTERS  
 SEQUENTIAL COMPUTERS  
 SOLOMON COMPUTERS  
 UNIVAC 80 COMPUTER  
 UNIVAC 418 COMPUTER  
 UNIVAC 490 COMPUTER  
 UNIVAC 1005 COMPUTER  
 UNIVAC 1105 COMPUTER  
 UNIVAC 1107 COMPUTER  
 UNIVAC 1108 COMPUTER  
 UNIVAC 1824 COMPUTER  
 UNIVAC LARC COMPUTER  
 BT COMPUTERS  
 \*DATA PROCESSING EQUIPMENT  
 RT ANALOG COMPUTERS  
 ANALOG TO DIGITAL CONVERTERS  
 CDC COMPUTERS  
 \*COMPUTER PROGRAMS  
 COMPUTER SYSTEMS PROGRAMS  
 \*DATA PROCESSING  
 DIGITAL RADAR SYSTEMS  
 DIGITAL SYSTEMS  
 DIGITAL TO ANALOG CONVERTERS  
 HYBRID COMPUTERS  
 IBM COMPUTERS  
 LOGIC CIRCUITS  
 TURING MACHINES  
 UNIVAC COMPUTERS  
 DIGITAL DATA  
 0708 0802 0803  
 RT ANALOG DATA  
 BINARY DATA  
 DATA  
 DATA CONVERTERS  
 \*DATA PROCESSING  
 DIGITAL SYSTEMS  
 VIDEO DATA  
 DIGITAL FILTERS  
 0905 1902  
 BT \*ELECTRIC FILTERS  
 RT ELECTROMAGNETIC WAVE FILTERS  
 FILTERS  
 MICROWAVE FILTERS  
 DIGITAL INTEGRATORS  
 0801 0802 1201  
 BT \*CIRCUITS  
 INTEGRATORS  
 RT BINARY INTEGRATION  
 DIGITAL TECHNIQUES  
 FUNCTIONAL INTEGRATION  
 NUMERICAL INTEGRATION  
 DIGITAL NAVIGATION  
 0802 2103  
 BT \*NAVIGATION  
 RT AIR NAVIGATION  
 DEAD RECKONING  
 INERTIAL NAVIGATION  
 POLAR NAVIGATION  
 SPACE NAVIGATION  
 SURFACE NAVIGATION  
 DIGITAL RADAR SYSTEMS  
 0705  
 BT DIGITAL SYSTEMS  
 RT \*DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 RADAR DETECTION  
 \*RADAR EQUIPMENT  
 RADAR RECEIVERS  
 RADAR SCANNING  
 RADAR TARGETS

## DIGITAL SIMULATION

RADAR TRACKING  
 RADAR TRANSMISSION  
 SIGNAL ANALYSIS  
 SURVEILLANCE RADAR  
 TRACKING RADAR  
 DIGITAL SIMULATION  
 0802 0804  
 BT COMPUTERIZED SIMULATION  
 MATHEMATICAL MODELS  
 #MODELS  
 #SIMULATION  
 RT ANALOG SIMULATION  
 DIGITAL TECHNIQUES  
 WAR GAMES  
 DIGITAL SPACECRAFT TELEVISION  
 0702 0801 1410  
 BT #COMMUNICATION EQUIPMENT  
 PULSE COMMUNICATION  
 SPACECRAFT TELEVISION  
 #TELECOMMUNICATION  
 RT WIRELESS COMMUNICATIONS  
 DIGITAL SYSTEMS  
 0708 0801 0802  
 UF BINARY SYSTEMS (DIGITAL)  
 TERNARY SYSTEMS (DIGITAL)  
 NT DIGITAL RADAR SYSTEMS  
 RT ANALOG TO DIGITAL CONVERTERS  
 BINARY CODES  
 BINARY DIGITS  
 BITERNARY CODE  
 DATA SYSTEMS  
 DIGITAL COMPUTERS  
 DIGITAL DATA  
 DIGITAL TECHNIQUES  
 DIGITAL TO ANALOG CONVERTERS  
 #TELECOMMUNICATION  
 DIGITAL TECHNIQUES  
 0801 0802 1001  
 RT BCH CODES  
 BISTABLE CIRCUITS  
 CODING  
 COMPUTER PROGRAMMING  
 DIGITAL INTEGRATORS  
 DIGITAL SIMULATION  
 DIGITAL SYSTEMS  
 ERROR DETECTION CODES  
 METHODOLOGY  
 NUMERICAL CONTROL  
 SHIFT REGISTERS  
 DIGITAL TO ANALOG CONVERTERS  
 0801 0802  
 BT DATA CONVERTERS  
 RT ANALOG TO DIGITAL CONVERTERS  
 CONVERTERS  
 DIGITAL COMPUTERS  
 DIGITAL SYSTEMS  
 DIGITAL TRANSDUCERS  
 PLOTTERS  
 SIGNAL ENCODING  
 X-Y PLOTTERS  
 DIGITAL TO VOICE TRANSLATORS  
 0701 0801 0802  
 UF DIVOT (VOICE TRANSLATORS)  
 RT COMPUTERS  
 TRANSLATORS  
 VOCODERS  
 VOICE DATA PROCESSING  
 DIGITAL TRANSDUCERS  
 0801 1413  
 BT #TRANSDUCERS  
 RT DIGITAL TO ANALOG CONVERTERS  
 DIGITALIS  
 0403 0405 1808  
 BT #DRUGS  
 RT GALACTOKINASE  
 DIGITIZERS  
 USE ANALOG TO DIGITAL CONVERTERS  
 DIGITONIN  
 0403 0405 1808  
 BT #STEROIDS  
 DIGITS  
 0703 0802 0803 1902  
 (EXCLUDES FINGERS AND TOES)  
 NT BINARY DIGITS  
 BT #ALPHANUMERIC CHARACTERS  
 RT CODES  
 DECIMALS  
 INTEGERS  
 #NUMBER THEORY  
 NUMBERS  
 SYMBOLS

## DIHEDRAL ANGLE

0104 1202 1902 2502  
 BT ANGLES (GEOMETRY)  
 RT LATERAL STABILITY  
 DIHEDRAL EFFECT  
 USE LATERAL STABILITY  
 DIHYDRAZINE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 HYDRAZINES  
 DIHYDRIDES  
 0603 1804  
 BT HYDRIDES  
 #HYDROGEN COMPOUNDS  
 DIISOCYANATES  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 CYANO COMPOUNDS  
 #ESTERS  
 ISOCYANATES  
 #NITROGEN COMPOUNDS  
 DILATATION  
 USE STRETCHING  
 DILATATIONAL WAVES  
 1202 1805 1809 1810 3203  
 BT #ELASTIC WAVES  
 RT LONGITUDINAL WAVES  
 P WAVES  
 S WAVES  
 SEISMIC WAVES  
 SHEAR  
 STRETCHING  
 WAVES  
 DILATOMETERS  
 USE EXTENSOMETERS  
 DILATOMETRY  
 1202 1406  
 RT EXTENSOMETERS  
 MEASUREMENT  
 THERMAL EXPANSION  
 DILUENTS  
 0603 1703 1805  
 RT #ADDITIVES  
 AGENTS  
 COMBUSTION PRODUCTS  
 CONTAMINANTS  
 DISPERSIONS  
 EXHAUST GASES  
 SOLVENTS  
 DILUTION  
 0601 0602  
 RT #ATTENUATION  
 CONCENTRATION (COMPOSITION)  
 #DIFFUSION  
 DISPERSING  
 DISPOSAL  
 DISSIPATION  
 DISSOLVING  
 LOW CONCENTRATIONS  
 MIXING  
 PURITY  
 REDUCTION  
 WASTE DISPOSAL  
 DIMENHYDRINATE  
 0403 0405 1808  
 BT #AMINES  
 ANTIHISTAMINICS  
 #DRUGS  
 #HETEROCYCLIC COMPOUNDS  
 DIMENSIONAL ANALYSIS  
 1902 2311  
 RT APPLICATIONS OF MATHEMATICS  
 DIMENSIONLESS NUMBERS  
 #DIMENSIONS  
 FIBERS (MATHEMATICS)  
 #FLUID FLOW  
 PARAMETERIZATION  
 SCALING LAWS  
 SIMILARITY NUMBERS  
 UNITS OF MEASUREMENT  
 DIMENSIONAL MEASUREMENT  
 1406 1902  
 UF PLANIMETRY  
 RT DEFORMETERS  
 DISTANCE MEASURING EQUIPMENT  
 MEASUREMENT  
 MICROMETERS  
 SIZE DETERMINATION  
 DIMENSIONAL STABILITY  
 3202 3203  
 NT SHELL STABILITY  
 STRUCTURAL STABILITY

## NASA THESAURUS (ALPHABETICAL LISTING)

BT #MECHANICAL PROPERTIES  
 #STABILITY  
 STATIC STABILITY  
 RT CREEP PROPERTIES  
 CURL (MATERIALS)  
 DYNAMIC STABILITY  
 ROCHE LIMIT  
 THERMAL STABILITY  
 TOLERANCES (MECHANICS)  
 DIMENSIONLESS NUMBERS  
 0101 1203 1902  
 NT FROUDE NUMBER  
 GRASHOP NUMBER  
 HARTMANN NUMBER  
 LAVAL NUMBER  
 LEWIS NUMBERS  
 MACH NUMBER  
 NUSSELT NUMBER  
 PECLET NUMBER  
 PRANDTL NUMBER  
 RAYLEIGH NUMBER  
 REYNOLDS NUMBER  
 RICHARDSON NUMBER  
 SCHMIDT NUMBER  
 SIMILARITY NUMBERS  
 STANTON NUMBER  
 STROUHAL NUMBER  
 BT #RATIOS  
 RT DIMENSIONAL ANALYSIS  
 #FLUID FLOW  
 HEAT TRANSFER  
 NUMBERS  
 SCALING LAWS  
 #DIMENSIONS  
 1406 1902  
 NT DEPTH  
 DIAMETERS  
 FILM THICKNESS  
 HEIGHT  
 LENGTH  
 RADII  
 SCALE HEIGHT  
 TARGET THICKNESS  
 THICKNESS  
 WIDTH  
 RT AMPLITUDES  
 DESIGN  
 DIMENSIONAL ANALYSIS  
 DISTANCE  
 DRAWINGS  
 ENGINEERING DRAWINGS  
 FINENESS RATIO  
 #GEOMETRY  
 MAGNITUDE  
 PARTICLE SIZE DISTRIBUTION  
 RELATIVISTIC EFFECTS  
 SPAN  
 TOPOLOGY  
 UNITS OF MEASUREMENT  
 VOLUME  
 DIMERCAPROL  
 0403 0405 0412 1808  
 BT #ALIPHATIC COMPOUNDS  
 #SULFUR COMPOUNDS  
 THIOLS  
 DIMERIZATION  
 0403 0602  
 BT POLYMERIZATION  
 RT COPOLYMERIZATION  
 DIMERS  
 0403 0603  
 BT PREPOLYMERS  
 RT MONOMERS  
 TRIMERS  
 DIMETHYLHYDRAZINES  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #AMINES  
 HYDRAZINES  
 RT AEROZINE  
 METHYLHYDRAZINE  
 DIMINUTION  
 USE REDUCTION  
 DIMMING  
 3407  
 RT BRIGHTNESS  
 LIGHT EMISSION  
 REDUCTION  
 DIMPLING  
 0406 1504 1704  
 RT BULGING  
 #METAL WORKING

## NASA THESAURUS (ALPHABETICAL LISTING)

## DIRECTIONAL CONTROL

STAMPING  
DINFIA AIRCRAFT  
0204  
RT AIRCRAFT  
DINFIA PA AIRCRAFT  
0204 0209  
UF GUARANI AIRCRAFT  
GUARANI 1 AIRCRAFT  
BT #JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
RT GENERAL AVIATION AIRCRAFT  
PASSENGER AIRCRAFT  
DINITRATES  
0603 1804  
BT NITRATES  
#NITROGEN COMPOUNDS  
#DIODES  
0903 0906  
UF P-I-N DIODES  
NT AVALANCHE DIODES  
CESIUM DIODES  
CRYOSAR  
CRYSTAL RECTIFIERS  
GERMANIUM DIODES  
JUNCTION DIODES  
PARAMETRIC DIODES  
PHOTODIODES  
PLASMA DIODES  
THERMIONIC DIODES  
TUNNEL DIODES  
VARACTOR DIODES  
BT #ELECTRON TUBES  
#RECTIFIERS  
SEMICONDUCTOR DEVICES  
SOLIONS  
TRIODES  
DIOPHANTINE EQUATION  
1902  
BT #NUMBER THEORY  
RT EQUATIONS  
DIORITE  
1306 1806  
BT IGNEOUS ROCKS  
ROCKS  
RT #MINERALS  
DIOXIDES  
0603 1701 1804 1808  
NT CARBON DIOXIDE  
COESITE  
ENSTATITE  
PLINT  
HYDROGEN PEROXIDE  
PYROXENES  
QUARTZ  
SILICON DIOXIDE  
BT #CHALCOGENIDES  
OXIDES  
RT KARL FISCHER REAGENT  
PEROXIDES  
SULFUR OXIDES  
THORIUM OXIDES  
TITANIUM OXIDES  
DIPHENYL COMPOUNDS  
1808  
NT DIPHENYL HYDANTOIN  
BT #HYDROCARBONS  
DIPHENYL HYDANTOIN  
0403 1808  
BT #AMINES  
ANTIHISTAMINICS  
DIPHENYL COMPOUNDS  
#DRUGS  
#HYDROCARBONS  
DIPHOSPHATES  
0603 1804  
NT ADENOSINE DIPHOSPHATE (ADP)  
BT PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
DIPHOTHERIA  
0405  
BT #DISEASES  
INFECTIONOUS DISEASES  
RT TOXIC DISEASES  
DIPLEXERS  
0701 0901 0902  
BT ANTENNA COUPLERS  
#CIRCUITS  
#COMMUNICATION EQUIPMENT  
#COUPLERS  
RT COUPLES  
RADAR ANTENNAS  
#RADAR EQUIPMENT  
TELEVISION EQUIPMENT  
DIPLOLE ANTENNAS  
0901 2304 2402  
(SINGLE DIPLOLE ANTENNAS)  
BT ANTENNAS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
RT ANTENNA ARRAYS  
ANTENNA DESIGN  
DIPLOLES  
DIRECTORS (ANTENNA ELEMENTS)  
LENS ANTENNAS  
LINEAR ARRAYS  
LOG PERIODIC ANTENNAS  
LOG SPIRAL ANTENNAS  
MONOPOLE ANTENNAS  
OMNIDIRECTIONAL ANTENNAS  
RADAR ANTENNAS  
TURNSTILE ANTENNAS  
YAGI ANTENNAS  
DIPLOLE MOMENTS  
2304 2305 2401 2404  
NT ELECTRIC MOMENTS  
MAGNETIC MOMENTS  
BT #MOMENTS  
RT DOMAINS  
#ELECTRICAL PROPERTIES  
MAGNETIC DOMAINS  
#MAGNETIC PROPERTIES  
VAN DER WAAL FORCES  
DIPLOLES  
0604 0701 0901 2304 2307 2309 2402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DIPLOLE ANTENNAS  
#ELECTRIC CHARGE  
ELECTRIC DIPLOLES  
MAGNETIC DIPLOLES  
MAGNETIC POLES  
MONOPOLES  
ORBITING DIPLOLES  
POLARITY  
QUADRUPOLES  
DIPPING  
1504 1704 1803 3407  
RT BATHS  
#COATINGS  
QUENCHING (COOLING)  
SUBMERGING  
WETTING  
DIRAC EQUATION  
1902 2304 2311 2403  
BT WAVE EQUATIONS  
RT EQUATIONS  
FIELD THEORY (PHYSICS)  
KLEIN-GORDON EQUATION  
LOBENTZ TRANSFORMATIONS  
QUANTUM THEORY  
DIRECT CURRENT  
0302 0902 0904 1001 1002 2304  
UF DC (CURRENT)  
BT #ELECTRIC CURRENT  
RT ALTERNATING CURRENT  
DIRECT LIFT CONTROLS  
1003 2102  
RT CONTROL  
LIFT DEVICES  
DIRECT POWER GENERATORS  
0301 0302  
UF ENERGY CONVERTERS  
NT ALKALINE BATTERIES  
BIOCHEMICAL FUEL CELLS  
DRY CELLS  
ELECTROSTATIC GENERATORS  
FUEL CELLS  
HYDROGEN OXYGEN FUEL CELLS  
MAGNESIUM CELLS  
MAGNETOHYDRODYNAMIC GENERATORS  
METAL AIR BATTERIES  
NICKEL ZINC BATTERIES  
PHOTOELECTRIC GENERATORS  
PRIMARY BATTERIES  
RADIOISOTOPE BATTERIES  
REGENERATIVE FUEL CELLS  
SNAP 9A  
SNAP 10A  
SNAP 3  
SNAP 7  
SNAP 11  
SNAP 13  
SNAP 15  
SNAP 17  
SNAP 19  
SNAP 21  
SNAP 23  
SNAP 27  
SNAP 29  
SOLAR CELLS  
THERMAL BATTERIES  
THERMIONIC CONVERTERS  
THERMOELECTRIC GENERATORS  
ZINC-OXYGEN BATTERIES  
BT #ELECTRIC GENERATORS  
RT #AUXILIARY POWER SOURCES  
CONVERTERS  
ELECTRIC BATTERIES  
ELECTRIC CELLS  
ELECTRIC ENERGY STORAGE  
ENERGY ABSORPTION FILMS  
ENERGY CONVERSION  
ENERGY CONVERSION EFFICIENCY  
HEAT GENERATION  
PHOTOELECTRIC CELLS  
SOLAR GENERATORS  
SPACECRAFT POWER SUPPLIES  
DIRECT READOUT EQUATORIAL WEATHER SAT  
2003 2004 3107  
UF DREWS (SATELLITES)  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
RT CLOUD PHOTOGRAPHY  
SATELLITE OBSERVATION  
DIRECTION  
1102 1406 2103 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AUTONOMY  
AZIMUTH  
BEARING (DIRECTION)  
DIRECTIVITY  
#MANAGEMENT  
REVERSING  
DIRECTION FINDERS (RADIO)  
USE RADIO DIRECTION FINDERS  
DIRECTIONAL ANTENNAS  
0702 0705 0901  
UF TRACKING ANTENNAS  
NT DIPLOLE ANTENNAS  
HELICAL ANTENNAS  
HORN ANTENNAS  
INERTIALLESS STEERABLE ANTENNAS  
LENS ANTENNAS  
LOG PERIODIC ANTENNAS  
LOOP ANTENNAS  
PARABOLIC ANTENNAS  
RADAR ANTENNAS  
RHOMBIC ANTENNAS  
SLOT ANTENNAS  
STEERABLE ANTENNAS  
TWO REFLECTOR ANTENNAS  
YAGI ANTENNAS  
BT ANTENNAS  
#CONDUCTORS  
ANTENNA ARRAYS  
ANTENNA RADIATION PATTERNS  
AUTOMATIC GIMBAL ANTENNA VECTOR  
EQUIPMENT  
BACKLOBES  
BORESIGHTS  
ENDFIRE ARRAYS  
MICROWAVE ANTENNAS  
MICROWAVE COUPLING  
MISSILE ANTENNAS  
MONOPULSE ANTENNAS  
OMNIDIRECTIONAL ANTENNAS  
RADIO ANTENNAS  
SOMMERFELD APPROXIMATION  
SPINNERS  
DIRECTIONAL CONTROL  
0101 0203 0901 1202 2807  
UF VECTOR CONTROL  
NT THRUST VECTOR CONTROL  
BT #ATTITUDE CONTROL  
RT AIRCRAFT CONTROL  
#AUTOMATIC CONTROL  
DIRECTIONAL STABILITY  
HELICOPTER CONTROL

# DIRECTIONAL STABILITY

JET CONTROL  
 LATERAL CONTROL  
 LONGITUDINAL CONTROL  
 MANUAL CONTROL  
 MISSILE CONTROL  
 REACTION CONTROL  
 ROCKET ENGINE CONTROL  
 SATELLITE ATTITUDE CONTROL  
 SATELLITE CONTROL  
 YAW

DIRECTIONAL STABILITY  
 0101 0201  
 NT GYROSCOPIC STABILITY  
 BT ATTITUDE STABILITY  
 #DYNAMIC CHARACTERISTICS  
 #DYNAMIC STABILITY  
 #MOTION STABILITY  
 #STABILITY  
 RT AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 CONTROLLABILITY  
 DIRECTIONAL CONTROL  
 FLOW STABILITY  
 HOVERING STABILITY  
 LATERAL OSCILLATION  
 LATERAL STABILITY  
 LONGITUDINAL STABILITY  
 ROTARY STABILITY  
 SPACECRAFT STABILITY  
 YAW

DIRECTIVITY  
 0705 0901  
 RT ALIGNMENT  
 #ANISOTROPY  
 COLLINATION  
 CRYSTALLOGRAPHY  
 DIRECTION  
 FIELD STRENGTH  
 INSTRUMENT ORIENTATION  
 ISOTROPY  
 ORIENTATION

DIRECTORIES  
 USE INDEXES (DOCUMENTATION)  
 DIRECTORS (ANTENNA ELEMENTS)  
 0705 0901  
 RT DIPOLE ANTENNAS  
 RADIO RECEIVERS  
 REFLECTOMETERS  
 #REFLECTORS  
 RODS  
 YAGI ANTENNAS

DIRICHLET PROBLEM  
 1902  
 RT DIFFERENTIAL EQUATIONS  
 PROBLEMS

DIRIGIBLES  
 USE AIRSHIPS

DIRT  
 0505 1805  
 BT #SOILS  
 RT CONTAMINANTS  
 #DUST  
 IMPURITIES  
 #PARTICLES  
 ROCKS

DISARMAMENT  
 3401  
 RT INTERNATIONAL COOPERATION

DISASTERS  
 3401 3406  
 RT ACCIDENTS

DISCHARGE  
 1001 2304 2502 2808 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DETONATION  
 DISPERSING  
 DISPOSAL  
 DRAINAGE  
 EFFLUENTS  
 EJECTION  
 ELECTRIC DISCHARGES  
 ELECTRODELESS DISCHARGES  
 ELIMINATION  
 EMISSION  
 EXHAUSTING  
 EXPELLANTS  
 #EXPLOSIONS  
 OUTLETS  
 RELEASING  
 RELIEVING

RING DISCHARGE  
 UNLOADING  
 VENTING

DISCHARGE COEFFICIENT  
 1202  
 BT #COEFFICIENTS  
 FLOW COEFFICIENTS  
 RT AXIAL FLOW  
 FLOW VELOCITY  
 INFLUENCE COEFFICIENT  
 MASS FLOW FACTORS  
 NOZZLE FLOW  
 NOZZLE GEOMETRY  
 NOZZLE THRUST COEFFICIENTS  
 WALL FLOW

DISCHARGE TUBES  
 USE GAS DISCHARGE TUBES

DISCHARGERS  
 1001 1504 2304 3407  
 RT STATIC DISCHARGERS

DISCIPLINING  
 0408 0410 0502  
 RT LIABILITIES  
 MORALE  
 PENALTIES

DISCOLORATION  
 0411 1505 1702 2306 2310  
 RT COLOR  
 #DAMAGE  
 DEGRADATION  
 #FADING  
 STAINING

DISCONNECT DEVICES  
 0202 0701 0904 0905 1504  
 UF DISCONNECTORS  
 RT CIRCUIT BREAKERS  
 CONNECTORS  
 ELECTRIC CONNECTORS  
 ELECTRIC FUSES  
 ELECTRIC RELAYS  
 RELAY

DISCONNECTORS  
 USE DISCONNECT DEVICES

DISCONTINUITY  
 1203 1902 3406 3408  
 NT SHOCK DISCONTINUITY  
 RT #ANALYSIS (MATHEMATICS)  
 GIBBS PHENOMENON  
 INCOHERENCE  
 VORTEX STREETS

DISCOVERER RECOVERY CAPSULES  
 3105 3107 3409  
 UF DRC (CAPSULE)  
 BT #SPACE CAPSULES  
 RT RECOVERY PARACHUTES  
 SPACECRAFT RECOVERY

DISCOVERER 5 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT POLAR ORBITS

DISCOVERER 6 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT POLAR ORBITS

DISCOVERER 15 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 #SATELLITES

DISCOVERER 17 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

DISCOVERER 18 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

# NASA THESAURUS (ALPHABETICAL LISTING)

DISCOVERER 29 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

DISCOVERER 30 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

DISCOVERER 31 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 #SATELLITES

DISCOVERER 32 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

DISCOVERER 36 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

DISCOVERER 38 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 DISCOVERER SATELLITES  
 EARTH SATELLITES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SATELLITES

DISCOVERER SATELLITES  
 3107 3409  
 NT DISCOVERER 5 SATELLITE  
 DISCOVERER 6 SATELLITE  
 DISCOVERER 15 SATELLITE  
 DISCOVERER 17 SATELLITE  
 DISCOVERER 18 SATELLITE  
 DISCOVERER 29 SATELLITE  
 DISCOVERER 30 SATELLITE  
 DISCOVERER 31 SATELLITE  
 DISCOVERER 32 SATELLITE  
 DISCOVERER 36 SATELLITE  
 DISCOVERER 38 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT AGENA A ROCKET VEHICLE  
 AGENA B ROCKET VEHICLE  
 AGENA ROCKET VEHICLES  
 THOR AGENA LAUNCH VEHICLE

DISCOVERING  
 USE #EXPLORATION

DISCRETE FUNCTIONS  
 1902  
 BT #FUNCTIONS (MATHEMATICS)  
 MULTIVARIATE STATISTICAL ANALYSIS  
 RT DISTRIBUTION FUNCTIONS  
 HISTOGRAMS  
 NORMAL DENSITY FUNCTIONS  
 POISSON DENSITY FUNCTIONS  
 PROBABILITY DENSITY FUNCTIONS  
 PROBABILITY DISTRIBUTION FUNCTIONS  
 #STATISTICAL ANALYSIS

#DISCRIMINATION  
 0404 0705 0902  
 NT BRIGHTNESS DISCRIMINATION  
 SENSORY DISCRIMINATION  
 TACTILE DISCRIMINATION  
 VISUAL DISCRIMINATION

RT #ACUITY  
 COMPARATOR CIRCUITS  
 DIFFERENTIATION  
 SELECTIVITY  
 SIGNAL DETECTION  
 SIGNAL DETECTORS  
 TARGET RECOGNITION

# NASA THESAURUS (ALPHABETICAL LISTING)

## DISCRIMINATORS

0902 1201

RT FRAUNHOFER LINE DISCRIMINATORS

BT #CIRCUITS

RT ANALOG COMPUTERS

COMPARATORS

ERROR SIGNALS

INTERMODULATION

RC CIRCUITS

## DISCUSSION

3406

(USE OF A MORE SPECIFIC TERM IS

RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)

RT CONFERENCES

EVALUATION

EXAMINATION

REPORTS

REVIEWING

## #DISEASES

0404 0405 0408 0410 0412

RT ADDISON'S DISEASE

AEROSINUSITIS

AIRBORNE INFECTION

ALBINISM

ANEMIAS

ARTERIOSCLEROSIS

ARTHRITIS

ASTHMA

ATAXIA

ATELECTASIS

CANCER

CARBON MONOXIDE POISONING

CHOLERA

COLIC

CONJUNCTIVITIS

CONTACT DERMATITIS

CYANOSIS

DERMATITIS

DIABETES MELLITUS

DIPHTHERIA

EDEMA

EMPHYSEMA

ENCEPHALITIS

EPILEPSY

FAT EMBOLISMS

FIBROSIS

HEADACHE

HEART DISEASES

INFARCTION

INFECTIOUS DISEASES

INFLUENZA

KERATITIS

KIDNEY DISEASES

LEAD POISONING

LEUKEMIAS

LITHIASIS

MENINGITIS

MILIARIA

NARCOLEPSY

NEOPLASMS

NEPHRITIS

NEURASTHENIA

NEURITIS

PARALYSIS

PARASITIC DISEASES

PARKINSON DISEASE

PNEUMONIA

POLIOYELITIS

PULMONARY LESIONS

RADIATION SICKNESS

RESPIRATORY DISEASES

RHEUMATIC DISEASES

SCHIZOPHRENIA

SMALLPOX

SYPHILIS

TACHYCARDIA

THROMBOPEMIA

THROMBOSIS

TOOTH DISEASES

TOXIC DISEASES

TUBERCULOSIS

TUMORS

TYPHOID

TYPHUS

ULCERS

UROLITHIASIS

RT CREATININE

CURES

CYSTIC FIBROSIS

DIAGNOSIS

#MEDICAL SCIENCE

## PATHOGENESIS

PATHOLOGICAL EFFECTS

PNEUMOTHORAX

PROPHYLAXIS

SIGNS AND SYMPTOMS

SYMPTOMOLOGY

THERAPY

VACCINES

## DISHES

USE PARABOLIC REFLECTORS

## DISILICIDES

0603 1804

BT SILICIDES

#SILICON COMPOUNDS

RT SILANES

SILICATES

## DISINFECTANTS

USE ANTISEPTICS

## DISINTEGRATION

0403 0602 2304 3203

RT

ATOMIZING

COMMINUTION

CRUSHERS

CRUSHING

#DAMAGE

#DECAY

DECOMPOSITION

DETERIORATION

FLAKING

GRINDING (COMMINUTION)

#IONIZATION

LYSOGENESIS

## DISKS

0801 3203

(USE OF A MORE SPECIFIC TERM IS

RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)

RT

ACTUATOR DISKS

DISKS (SHAPES)

INTERVERTEBRAL DISKS

MAGNETIC DISKS

## DISKS (SHAPES)

0101

NT

ACTUATOR DISKS

INTERVERTEBRAL DISKS

ROTATING DISKS

RT

AERODYNAMIC CONFIGURATIONS

BODIES OF REVOLUTION

CIRCULAR PLATES

DISKS

PLATES

## #DISLOCATIONS (MATERIALS)

0601 1202 1204 2601 2603

NT

CRYSTAL DISLOCATIONS

EDGE DISLOCATIONS

SCREW DISLOCATIONS

RT

DISPLACEMENT

FLOW THEORY

## DISORDERS

0405 0408 0410

RT

CHOLERA

DEPERSONALIZATION

DEPRESSION

DETACHMENT

DISTURBANCES

DITHERS

EMOTIONAL FACTORS

HUMAN BEHAVIOR

#PSYCHOLOGY

PSYCHOSES

UPSETTING

VIOLENCE

## DISORIENTATION

0201 2102 2103 3009 3203 3406

RT

BIOLOGICAL EFFECTS

CORIOLIS EFFECT

DETACHMENT

DITHERS

IRRATIONALITY

MISALIGNMENT

#PSYCHOLOGICAL EFFECTS

#PSYCHOLOGY

STAGGERING

WEIGHTLESSNESS

## DISPATCHING

USE DISTRIBUTING

## DISPENSERS

0202 0505 0507 1103 1502 3404

RT

DISTRIBUTORS

EJECTORS

FEEDERS

MATERIALS HANDLING

# DISPLACEMENT

## ROLLERS

SPRAYERS

## DISPERSING

0602

(OF MATERIALS OR PARTICLES)

RT

AGITATION

ASSIMILATION

#CIRCULATION

COLLOIDING

DEFLECTION

#DIFFUSION

DILUTION

DISCHARGE

DISPERSION

DISPERSIONS

DISPOSAL

DISSIPATION

DISTRIBUTING

DISTRIBUTION

ENTRAINMENT

EXHAUSTING

HOMOGENIZING

LANGVIN FORMULA

PERMEATING

REDUCTION

RELEASING

#SCATTERING

SEPARATION

SHAKING

SPRAYING

SPREADING

STIRRING

SUSPENDING (MIXING)

SWIRLING

## DISPERSION

1411 1701 1902 2310 2311 3006 3408

(USE OF A MORE SPECIFIC TERM IS

RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)

RT

DEVIATION

#DIFFUSION

DISPERSING

DISPERSIONS

#DUST

MAGNETIC DISPERSION

MIXERS

RANDOM ERRORS

#STATISTICAL ANALYSIS

VARIABILITY

WAVE DISPERSION

## DISPERSION PRECIPITATION HARDENING

USE PRECIPITATION HARDENING

## DISPERSIONS

2310 2311

NT

AEROSOLS

COLLOIDAL PROPELLANTS

COLLOIDS

EMULSIONS

FOG

LIQUID-GAS MIXTURES

NUCLEAR EMULSIONS

PHOTOGRAPHIC EMULSIONS

PLASTISOLS

SHOKE

BT

#MIXTURES

RT

BROWNIAN MOVEMENTS

COLLOIDAL GENERATORS

DILUENTS

DISPERSING

DISPERSION

#DUST

FUMES

MIST

#PARTICLES

SLURRIES

SLURRY PROPELLANTS

SUSPENDING (MIXING)

SUSPENSIONS

## DISPLACEMENT

1902 2304 2308

RT

AMPLITUDES

BENDING

BIAS

DEFLECTION

#DEFORMATION

#DISLOCATIONS (MATERIALS)

DISTORTION

DIVERGENCE

#ENGINES

HEAVING

#LEVEL (QUANTITY)

MAGNITUDE



## DISPLACEMENT MEASUREMENT

MOTION  
 NOTATION  
 POSITIONING  
 SKEWNESS  
 TEMPERATURE INVERSIONS  
 #VARIATIONS  
 #VIBRATION  
 DISPLACEMENT MEASUREMENT  
 1406 3203  
 (MEASUREMENT IN CHANGE OF POSITION)  
 RT #MECHANICAL MEASUREMENT  
 #DISPLAY DEVICES  
 0801 1406 1504 3406  
 UP DATA READOUT SYSTEMS  
 DISPLAY SYSTEMS  
 VISUAL DISPLAYS  
 NT ANEMOMETERS  
 APPROACH INDICATORS  
 FLOW DIRECTION INDICATORS  
 GYRO HORIZONS  
 HEAD-UP DISPLAYS  
 HOT-FILM ANEMOMETERS  
 HOT-WIRE ANEMOMETERS  
 KINOPHORM  
 MICROVISION LANDING AID  
 PLAN POSITION INDICATORS  
 POSITION INDICATORS  
 RADARSCOPES  
 RADIO DIRECTION FINDERS  
 SONIC ANEMOMETERS  
 SPACECRAFT POSITION INDICATORS  
 SPEED INDICATORS  
 TACHOMETERS  
 WIND VANES  
 RT AIRCRAFT EQUIPMENT  
 #AIRCRAFT INSTRUMENTS  
 AUTOMATIC TYPEWRITERS  
 CATHODE RAY TUBES  
 #CHARTS  
 COMPUTER GRAPHICS  
 CONSOLES  
 CONTROL BOARDS  
 DATA RECORDERS  
 DETECTORS  
 DIALS  
 #FLIGHT CONTROL  
 #FLIGHT INSTRUMENTS  
 FLYING SPOT SCANNERS  
 IMAGE TUBES  
 #IMAGERY  
 IMAGES  
 INDICATING INSTRUMENTS  
 INSTRUMENT LANDING SYSTEMS  
 INSTRUMENT RECEIVERS  
 INSTRUMENTS  
 LISTS  
 MAN MACHINE SYSTEMS  
 MAP MATCHING GUIDANCE  
 MONITORS  
 #NAVIGATION AIDS  
 PHOTOGRAPHS  
 PICTURE TUBES  
 PLANETARIUMS  
 PLOTS  
 PLOTTERS  
 PLOTTING  
 PRINTERS (DATA PROCESSING)  
 PROMOTION  
 #RADAR  
 RADAR RESOLUTION  
 READING  
 READOUT  
 REAL TIME OPERATION  
 RECEIVERS  
 REMOTE CONSOLES  
 SCREENS  
 SOLAR COMPASSES  
 STRIP  
 SYSTEMS  
 TARGET SIMULATORS  
 VIDEO DATA  
 VIDEO EQUIPMENT  
 VIEWING  
 VISUAL AIDS  
 VISUAL CONTROL  
 #WARNING SYSTEMS  
 DISPLAY SYSTEMS  
 USE #DISPLAY DEVICES  
 DISPOSAL  
 0505  
 NT WASTE DISPOSAL  
 RT AGITATION

CONTAINERS  
 DECONTAMINATION  
 DILUTION  
 DISCHARGE  
 DISPERSING  
 DISSIPATION  
 DISTRIBUTING  
 DISTRIBUTION  
 DUMPING  
 EJECTION  
 ELIMINATION  
 EMPTYING  
 EXHAUSTING  
 EXPULSION  
 ISOLATION  
 JETTISONING  
 MATERIALS HANDLING  
 MATERIALS RECOVERY  
 REMOVAL  
 SINKS  
 SPREADING  
 STORAGE  
 UNLOADING  
 DISRUPTING  
 0702 0710 3406 3407  
 RT INTERFERENCE  
 RUPTURING  
 DISSECTION  
 0404 0405  
 RT AUTOPSIES  
 PATHOLOGY  
 DISSIPATION  
 1504 2311 3203 3303 3407  
 UP DISSIPATORS  
 NT ENERGY DISSIPATION  
 OHMIC DISSIPATION  
 RT ATMOSPHERIC TURBULENCE  
 #ATTENUATION  
 DAMPING  
 DECONTAMINATION  
 DEPLETION  
 #DIFFUSION  
 DILUTION  
 DISPERSING  
 DISPOSAL  
 EXHAUSTING  
 #POLLUTION  
 PURIFICATION  
 REDUCTION  
 REMOVAL  
 WASTE DISPOSAL  
 DISSIPATORS  
 USE DISSIPATION  
 DISSOCIATION  
 0603 0604 0605 2404  
 UP MOLECULAR DISSOCIATION  
 NT AUTOIONIZATION  
 GAS DISSOCIATION  
 PHOTODISSOCIATION  
 THERMAL DISSOCIATION  
 RT ATOMIC RECOMBINATION  
 CHEMICAL EQUILIBRIUM  
 DEBYE-HUCKEL THEORY  
 DECOMPOSITION  
 #IONIZATION  
 MOLECULAR DIFFUSION  
 MOLECULAR INTERACTIONS  
 DISSOLUTION  
 USE DISSOLVING  
 DISSOLVING  
 0602  
 UP DISSOLUTION  
 BT MIXING  
 RT AERATION  
 CHEMICAL ATTACK  
 CHEMICAL CLEANING  
 CLEANING  
 COMPOUNDING  
 CORROSION  
 #DIFFUSION  
 DILUTION  
 EXTRACTION  
 HOMOGENIZING  
 LEACHING  
 PRECIPITATION (CHEMISTRY)  
 SEPARATION  
 SOFTENING  
 SOLUBILITY  
 SOLUTES  
 SOLUTION  
 SOLVENTS  
 WASHING

## NASA THESAURUS (ALPHABETICAL LISTING)

DISSYMMETRY  
 USE ASYMMETRY  
 DISTANCE  
 1308 1902 2103 2311 3009  
 NT DEBYE LENGTH  
 MISS DISTANCE  
 MISSILE RANGES  
 OPTICAL SLANT RANGE  
 RADAR RANGE  
 RADIO RANGE  
 REENTRY RANGE  
 RT AIRCRAFT PERFORMANCE  
 AIRCRAFT SPECIFICATIONS  
 ALTITUDE  
 DEPTH  
 #DIMENSIONS  
 FOCUSING  
 #GEOMETRY  
 HEIGHT  
 LENGTH  
 POSITION (LOCATION)  
 PROXIMITY  
 RADAR NAVIGATION  
 RANGE  
 #RANGE (EXTREMES)  
 TAKEOFF RUNS  
 TRAVEL  
 DISTANCE MEASURING EQUIPMENT  
 0202 0705 1406 2104 2310  
 NT ALTIMETERS  
 GEODIMETERS  
 LASER RANGE FINDERS  
 OPTICAL RANGE FINDERS  
 RADIO ALTIMETERS  
 RANGE FINDERS  
 STADIMETERS  
 TELUROMETERS  
 BT #MEASURING INSTRUMENTS  
 RT AUTOMATIC FLIGHT CONTROL  
 AUTOMATIC LANDING CONTROL  
 DECCA NAVIGATION  
 DEPTH MEASUREMENT  
 DIMENSIONAL MEASUREMENT  
 LORAN  
 MICROMETERS  
 #NAVIGATION  
 #NAVIGATION AIDS  
 OMNIDIRECTIONAL RADIO RANGES  
 POSITION INDICATORS  
 #RADAR  
 #RADAR EQUIPMENT  
 RADAR MEASUREMENT  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 RANGE ERRORS  
 SHORAN  
 SOLAR COMPASSES  
 SONAR  
 SOUND RANGING  
 DISTANCE PERCEPTION  
 USE SPACE PERCEPTION  
 DETERMINATING  
 3407  
 RT SEPARATION  
 DISTILLATION  
 0403 0602  
 NT STRIPPING (DISTILLATION)  
 RT CONCENTRATING  
 CONDENSING  
 DEMINERALIZING  
 DESALINIZATION  
 #DIFFUSION  
 DISTILLATION EQUIPMENT  
 EVAPORATION  
 FLASHING (VAPORIZING)  
 MATERIALS RECOVERY  
 PURGING  
 PURIFICATION  
 REFINING  
 SEPARATION  
 VAPORIZING  
 WASHING  
 DISTILLATION EQUIPMENT  
 0602 1504  
 RT COLUMNS (PROCESS ENGINEERING)  
 CONDENSERS (LIQUIFIERS)  
 DISTILLATION  
 EQUIPMENT  
 STILL  
 DISTORTION  
 0710 0804 1108 1902 2308 3203  
 NT FLOW DISTORTION

# NASA THESAURUS (ALPHABETICAL LISTING)

SIGNAL DISTORTION  
SURFACE DISTORTION  
RT ABERRATION  
#ABNORMALITIES  
ASTIGMATISM  
ASYMMETRY  
BENDING  
BUCKLING  
CAMBER  
DEFLECTION  
#DEFORMATION  
DEVIATION  
DISPLACEMENT  
#EXPANSION  
FAILURE  
FLEXING  
FOLDING  
GHOSTS  
HEAVING  
#REFRACTION  
SKEWNESS  
STRETCHING  
SWELLING  
TEMPERATURE INVERSIONS  
TWISTING  
#VARIATIONS  
WARPAGE  
WRINKLING  
DISTRIBUTED AMPLIFIERS  
0902 0904 1002  
BT #AMPLIFIERS  
RT FREQUENCY RESPONSE  
#TRANSMISSION LINES  
DISTRIBUTING  
3404  
UF DISPATCHING  
RT ALLOCATIONS  
ASSIMILATION  
DISPERSING  
DISPOSAL  
DISTRIBUTION  
FOOD  
INVENTORY CONTROLS  
MATERIALS HANDLING  
POSITIONING  
PROPORTION  
RESOURCE ALLOCATION  
#TRANSPORTATION  
DISTRIBUTION  
1502 1902 1905  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ALLOCATIONS  
ASSIMILATION  
DISPERSING  
DISPOSAL  
DISTRIBUTING  
#DISTRIBUTION (PROPERTY)  
LOAD DISTRIBUTION (FORCES)  
MASS DISTRIBUTION  
MATERIALS HANDLING  
POSITIONING  
PRESSURE DISTRIBUTION  
SPECTRAL ENERGY DISTRIBUTION  
STATISTICAL DISTRIBUTIONS  
#TRANSPORTATION  
#DISTRIBUTION (PROPERTY)  
1203 1902 3404  
UF PATTERN DISTRIBUTION  
NT ANGULAR DISTRIBUTION  
ANTENNA RADIATION PATTERNS  
BOLTZMANN DISTRIBUTION  
CHARGE DISTRIBUTION  
CURRENT DISTRIBUTION  
DIFFRACTION PATTERNS  
ELECTRON DENSITY PROFILES  
ELECTRON DISTRIBUTION  
ENERGY DISTRIBUTION  
FLOW DISTRIBUTION  
FORCE DISTRIBUTION  
FREQUENCY DISTRIBUTION  
HOLE DISTRIBUTION (ELECTRONICS)  
HOLE DISTRIBUTION (MECHANICS)  
INTERFERENCE LIFT  
ION DISTRIBUTION  
KOSSEL PATTERN  
LOAD DISTRIBUTION (FORCES)  
MASS DISTRIBUTION  
MOMENT DISTRIBUTION  
NEUTRON DISTRIBUTION  
PRESSURE DISTRIBUTION

RADIAL DISTRIBUTION  
RADIATION DISTRIBUTION  
RAINBOWS  
SIDELOBES  
SPATIAL DISTRIBUTION  
SPECTRAL ENERGY DISTRIBUTION  
STAR DISTRIBUTION  
STRESS CONCENTRATION  
TEMPERATURE DISTRIBUTION  
VELOCITY DISTRIBUTION  
VERTICAL DISTRIBUTION  
RT CHEMICAL COMPOSITION  
CROSS SECTIONS  
DISTRIBUTION  
#DYNAMIC CHARACTERISTICS  
FIELD THEORY (PHYSICS)  
#GRADIENTS  
JET LIFT  
LIFT  
PATTERNS  
PROFILES  
ROTOR LIFT  
STATISTICAL DISTRIBUTIONS  
SYNTHETIC ARRAYS  
ZERO LIFT  
DISTRIBUTION FUNCTIONS  
1902 1905  
BT #FUNCTIONS (MATHEMATICS)  
RT CHAPMAN-ENSKOG THEORY  
DISCRETE FUNCTIONS  
PROBABILITY THEORY  
STATISTICAL DISTRIBUTION  
DISTRIBUTION MOMENTS  
1905  
UF STATISTICAL MOMENTS  
NT MEAN  
STANDARD DEVIATION  
VARIANCE (STATISTICS)  
BT #MOMENTS  
RT AVERAGE  
MEDIAN (STATISTICS)  
MODE (STATISTICS)  
SKEWNESS  
STATISTICAL DISTRIBUTIONS  
DISTRIBUTORS  
0303 0904 1504  
RT COMMUTATORS  
DISPENSERS  
FEEDERS  
IGNITION SYSTEMS  
INTERNAL COMBUSTION ENGINE  
MATERIALS HANDLING  
ROLLERS  
SPRAYERS  
DISTRICT OF COLUMBIA  
1305  
RT UNITED STATES OF AMERICA  
DISTURBANCE THEORY  
USE PERTURBATION THEORY  
DISTURBANCES  
0410 1308 3009 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #BURSTS  
DISORDERS  
#ELECTROMAGNETIC INTERFERENCE  
#IONOSPHERIC DISTURBANCES  
IONOSPHERIC STORMS  
MAGNETIC DISTURBANCES  
#PERTURBATION  
RADIO AURORAS  
RADIO BURSTS  
SOLAR ACTIVITY  
#STORMS  
SUDDEN IONOSPHERIC DISTURBANCES  
VORTICES  
DISTURBING FUNCTIONS  
1902  
BT #FUNCTIONS (MATHEMATICS)  
RT PERTURBATION THEORY  
DISULFIDES  
0603 1804  
NT CARBON DISULFIDE  
BT #CHALCOGENIDES  
SULFIDES  
#SULFUR COMPOUNDS  
DITCHES  
1305  
RT CANALS  
IRRIGATION  
TROUGHES

## DIVERTERS

DITCHING  
0203 0506 1502  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DITCHING (LANDING)  
EXCAVATION  
DITCHING (EXCAVATION)  
USE EXCAVATION  
DITCHING (LANDING)  
0203  
BT AIRCRAFT LANDING  
CRASH LANDING  
#CRASHES  
#LANDING  
WATER LANDING  
RT AIRCRAFT ACCIDENTS  
DITCHING  
GLIDE LANDINGS  
DITHERS  
0408 0410  
BT SHAKING  
SHIVERING  
RT DISORDERS  
DISORIENTATION  
EMOTIONAL FACTORS  
HUMAN BEHAVIOR  
INHIBITION  
IRRATIONALITY  
VACILLATION  
DITHIOLS  
USE THIOLS  
DIURESIS  
0405  
RT #BODY FLUIDS  
EDEMA  
URINATION  
DIURETICS  
0405  
RT ACETAZOLAMIDE  
UREAS  
DIURNAL RHYTHMS  
USE CIRCADIAN RHYTHMS  
DIURNAL VARIATIONS  
1308 2003 2903 3009  
BT PERIODIC VARIATIONS  
#VARIATIONS  
RT #CYCLES  
DARKNESS  
DAYTIME  
MAGNETIC VARIATIONS  
NIGHT  
NOCTURNAL VARIATIONS  
TROPopause  
WIND VARIATIONS  
DIVERGENCE  
1902 3401 3406  
RT CONVERGENCE  
DEVIATION  
DIFFERENCES  
DISPLACEMENT  
DRIFT  
FOURIER ANALYSIS  
#FUNCTIONS (MATHEMATICS)  
GEOSTROPHIC WIND  
#REFRACTION  
SERIES (MATHEMATICS)  
#VARIATIONS  
VORTICES  
DIVERGENT NOZZLES  
1201 1504  
BT CONICAL NOZZLES  
EXHAUST NOZZLES  
NOZZLE GEOMETRY  
NOZZLE WALLS  
NOZZLES  
ROCKET NOZZLES  
THRUST CHAMBERS  
WIND TUNNEL NOZZLES  
DIVERTERS  
2205  
RT BAPFLES  
BLAST DEFLECTORS  
BYPASSES  
DEFLECTORS  
DIFFUSERS  
DIVIDERS  
FLAME DEFLECTORS  
SEPARATION  
#SEPARATORS  
#SHIELDING  
#VALVES

# DIVIDERS

## DIVIDERS

0902 0904 0905 1001 1504 1902  
(EXCLUDES VOLTAGE AND FREQUENCY  
DIVIDERS)

BT #SEPARATORS  
RT BAPPLES  
BARRIERS  
CURTAINS  
DIVERTERS  
PANELS  
SPACERS

## DIVIDING (MATHEMATICS)

1902

BT #NUMBER THEORY  
RT ARITHMETIC  
#COMPUTATION  
CONGRUENCES  
DIVISION  
QUOTIENTS

## DIVING (UNDERWATER)

0401

BT SUBMERGED BODIES  
RT BAROTRAUMA  
DECOMPRESSION SICKNESS  
HUMAN TOLERANCES  
MEDICAL PHENOMENA  
#PHYSIOLOGICAL EFFECTS  
UNDERWATER TESTS

## DIVISION

1902

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CELL DIVISION  
DIVIDING (MATHEMATICS)  
#NUMBER THEORY  
SUBDIVISIONS

## DIVOT (VOICE TRANSLATORS)

USE DIGITAL TO VOICE TRANSLATORS

## DME-A SATELLITE

USE EXPLORER 31 SATELLITE

## DNA

USE DEOXYRIBONUCLEIC ACID

## DO-27 AIRCRAFT

0204

UP DORNIER DO-27 AIRCRAFT  
BT DORNIER AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
UTILITY AIRCRAFT

## DO-28 AIRCRAFT

0204

UP DORNIER DO-28 AIRCRAFT  
BT DORNIER AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
UTILITY AIRCRAFT

## DO-29 AIRCRAFT

0209

UP DORNIER DO-29 AIRCRAFT  
BT DORNIER AIRCRAFT  
RESEARCH AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
#V/STOL AIRCRAFT

## DO-31 AIRCRAFT

0209

UP DORNIER DO-31 AIRCRAFT  
BT DORNIER AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT  
TURBOPAN AIRCRAFT  
#V/STOL AIRCRAFT

## DOCKING

USE SPACECRAFT DOCKING

## DOCUMENT STORAGE

0803

RT DATA STORAGE  
DOCUMENTATION  
FILES  
REPRODUCTION (COPYING)  
STORAGE

## DOCUMENTATION

0803 3405

(THE ASSEMBLING, CODING, KNOWLEDGE FOR  
GIVING DOCUMENTARY INFORMATION MAXIMUM  
ACCESSIBILITY AND USABILITY)

BT LITERATURE

## RT

ACQUISITION  
BIBLIOGRAPHIES  
BIOGRAPHY  
CASE HISTORIES  
CATALOGS (PUBLICATIONS)  
DATA RETRIEVAL  
DOCUMENT STORAGE  
#DOCUMENTS  
HISTORIES  
INDEXES (DOCUMENTATION)  
INFORMATION DISSEMINATION  
INFORMATION RETRIEVAL  
#KNOWLEDGE  
LIBRARIES  
NEWS  
PROCEEDINGS  
RECORDS  
REFERENCE SYSTEMS  
REPORTS  
SELECTIVE DISSEMINATION OF  
INFORMATION  
SPACE GLOSSARIES  
SUMMARIES  
TECHNICAL WRITING  
TECHNOLOGY TRANSFER  
TRANSLATING

## #DOCUMENTS

0803 3405

UP PUBLICATIONS  
NT ABSTRACTS  
BIBLIOGRAPHIES  
CATALOGS (PUBLICATIONS)  
DRAWINGS  
ENGINEERING DRAWINGS  
HANDBOOKS  
INSTALLATION MANUALS  
MANUALS  
PAPERS  
PERIODICALS  
PROCEEDINGS  
RECORDS  
SUPPLEMENTS  
TEXTBOOKS  
TEXTS  
THESES  
BT DICTIONARIES  
DOCUMENTATION  
DRAWINGS  
FORMAT  
INDEXES (DOCUMENTATION)  
INFORMATION RETRIEVAL  
LIBRARIES  
LITERATURE  
REPORTS  
TECHNOLOGY TRANSFER

## DODGE SATELLITE

3107

BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES

## DOGHOUSES

USE PROTUBERANCES

## DOLLS

0402

BT #ANIMALS  
MAMMALS  
VERTEBRATES

## DOLLIES

3106 3108 3409

BT #SURFACE VEHICLES  
RT CARRIAGES  
MATERIALS HANDLING  
SLEDS  
TRUCKS  
UNDERCARRIAGES

## DOLomite (MINERAL)

1806 2601

BT #CARBON COMPOUNDS  
CARBONATES  
#MAGNESIUM COMPOUNDS  
#MINERALS  
RT AGGREGATES  
LIMESTONE  
ROCKS  
SEDIMENTARY ROCKS

## DOLPHINS

0402

BT #ANIMALS  
MAMMALS  
VERTEBRATES

## DOMAIN WALL

2304 2305 2307

# NASA THESAURUS (ALPHABETICAL LISTING)

## RT

DOMAINS  
MAGNETIC DOMAINS  
NOTION

## DOMAINS

1902 2304 2307 2603

NT MAGNETIC DOMAINS  
BT DIPOLE MOMENTS  
DOMAIN WALL  
#ELECTRICAL PROPERTIES  
#RANGE (EXTREMES)

## DONES

3202 3203

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT DONES (GEOLOGY)  
DONES (STRUCTURAL FORMS)  
DONES (GEOLOGY)

## 1306

RT DONES

#GEOLOGY

## DONES (STRUCTURAL FORMS)

3203

NT RADOMES  
BT #SHELLS (STRUCTURAL FORMS)  
RT CUPOLAS  
DONES  
HEMISPHERICAL SHELLS  
HOUSINGS  
PRESSURE VESSELS  
PROTUBERANCES

## DOMINANCE

0404

NT EYE DOMINANCE  
RT #GENETICS

## DOMINO PROPELLANTS

2701 2702

BT HIGH ENERGY PROPELLANTS  
#PROPELLANTS  
RT PLASTICIZERS  
ROCKET OXIDIZERS  
SOLID ROCKET PROPELLANTS

## DONNELL EQUATIONS

3203

RT BUCKLING  
EQUATIONS  
STRESS ANALYSIS

## DONOR MATERIALS

0603 0906 2602

BT SEMICONDUCTORS (MATERIALS)  
RT ELECTRONS  
HOLES (ELECTRON DEFICIENCIES)

## DOORS

0504 0508 3202

UP EXITS (DOORS)  
RT AIR LOCKS  
APERTURES  
CURTAINS  
EGRESS  
ENTRANCES  
FLOORS  
GATES (OPENINGS)  
HATCHES  
#OPENINGS  
OUTLETS  
THRESHOLDS  
WINDOWS (APERTURES)

## DOPES

1802 1805

RT #ADDITIVES  
FILLERS  
FINISHES  
GELS  
PRIMERS (COATINGS)  
SEALERS

## DOPING (ADDITIVES)

USE #ADDITIVES

## DOPPLER EFFECT

0702 0705 0710 2301 2310 2311 3001

UP DOVAP  
STELLAR DOPPLER SHIFT  
NT DOPPLER-FIZEAU EFFECT  
RT EFFECTS  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
FIZEAU EFFECT  
FREQUENCY SHIFT  
OPTICAL HETERODYNING  
RADIAL VELOCITY  
RED SHIFT  
STELLAR MOTIONS

# NASA THESAURUS (ALPHABETICAL LISTING)

DOPPLER-FIZEAU EFFECT  
2306 2310 2311  
BT DOPPLER EFFECT  
RT DOPPLER NAVIGATION  
DOPPLER RADAR  
FIZEAU EFFECT  
FREQUENCY SHIFT  
RADAR NAVIGATION  
RED SHIFT  
STELLAR MOTIONS  
DOPPLER NAVIGATION  
0705 0708 2103  
BT #NAVIGATION  
RT AIR NAVIGATION  
ALL-WEATHER AIR NAVIGATION  
DEAD RECKONING  
DOPPLER-FIZEAU EFFECT  
DOPPLER RADAR  
RADAR NAVIGATION  
RADIO NAVIGATION  
DOPPLER RADAR  
0705 0706 0707 0709 2103  
BT #RADAR  
RT COHERENT RADAR  
CONTINUOUS WAVE RADAR  
DOPPLER-FIZEAU EFFECT  
DOPPLER NAVIGATION  
MONOPULSE RADAR  
MOVING TARGET INDICATORS  
POLYSTATION DOPPLER TRACKING SYSTEM  
PULSE RADAR  
RADAR DETECTION  
#RADAR EQUIPMENT  
RADAR NAVIGATION  
RADAR TRACKING  
SURVEILLANCE RADAR  
DORNIER AIRCRAFT  
0209  
NT DO-27 AIRCRAFT  
DO-28 AIRCRAFT  
DO-29 AIRCRAFT  
DO-31 AIRCRAFT  
RT AIRCRAFT  
DORNIER DO-27 AIRCRAFT  
USE DO-27 AIRCRAFT  
DORNIER DO-28 AIRCRAFT  
USE DO-28 AIRCRAFT  
DORNIER DO-29 AIRCRAFT  
USE DO-29 AIRCRAFT  
DORNIER DO-31 AIRCRAFT  
USE DO-31 AIRCRAFT  
DORNIER PARAGLIDER ROCKET VEHICLE  
3106  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS  
RT LIQUID PROPELLANT ROCKET ENGINES  
DORSAL SECTIONS  
0404  
RT #ANATOMY  
POSTERIOR SECTIONS  
DOSAGE  
0411  
UF DOSE  
NT RADIATION DOSAGE  
SUBLETHAL DOSAGE  
RT BIOLOGICAL EFFECTS  
DOSIMETERS  
#DRUGS  
RADIATION MEASUREMENT  
DOSE  
USE DOSAGE  
DOSIMETERS  
0411 0508 1404 1406  
UF DOSIMETRY  
RADIATION INDICATORS  
NT THRESHOLD DETECTORS (DOSIMETERS)  
BT #MEASURING INSTRUMENTS  
RADIATION DETECTORS  
RADIATION MEASURING INSTRUMENTS  
RT ACTINOMETERS  
DOSAGE  
EXPOSURE  
FLUX (RATE)  
FLUX DENSITY  
GEIGER COUNTERS  
IONIZATION CHAMBERS  
#IRRADIATION  
NEUTRON COUNTERS  
NUCLEAR EMULSIONS  
PHOTOGRAPHIC MEASUREMENT  
PROPORTIONAL COUNTERS

RADIANT FLUX DENSITY  
RADIATION COUNTERS  
RADIATION DOSAGE  
RADIATION EFFECTS  
RADIATION HAZARDS  
RADIATION MEASUREMENT  
RADIOBIOLOGY  
DOSIMETRY  
USE DOSIMETERS  
DOUBLE BASE PROPELLANTS  
2702 2809  
UF CORDITE  
NT DOUBLE BASE ROCKET PROPELLANTS  
BT #PROPELLANTS  
RT CELLULOSE NITRATE  
COMPOSITE PROPELLANTS  
ENDOTHERMIC FUELS  
EXPLOSIVES  
#FUELS  
NITROGLYCERIN  
PLASTISOLS  
PYROTECHNICS  
DOUBLE BASE ROCKET PROPELLANTS  
2702 2809  
BT DOUBLE BASE PROPELLANTS  
#FUELS  
GELS  
#PROPELLANTS  
ROCKET PROPELLANTS  
SOLID PROPELLANTS  
SOLID ROCKET PROPELLANTS  
RT CELLULOSE NITRATE  
COMPOSITE PROPELLANTS  
EXPLOSIVES  
NITROGLYCERIN  
DOUBLE CUSPS  
1902  
UF OSCILLATIONS  
BT CUSPS (MATHEMATICS)  
#GEOMETRY  
DOUBLE PRECISION ARITHMETIC  
0801 0802  
BT ARITHMETIC  
RT ARITHMETIC AND LOGIC UNITS  
NUMBERS  
DOUBLE SIDEBAND TRANSMISSION  
0702 0705 0710  
BT ELECTROMAGNETIC WAVE TRANSMISSION  
RADIO TRANSMISSION  
#SIGNAL TRANSMISSION  
#TRANSMISSION  
RT #MODULATION  
SIDEBANDS  
SINGLE SIDEBAND TRANSMISSION  
TELEVISION TRANSMISSION  
WAVE PROPAGATION  
DOUGLAS AIRCRAFT  
0201 0207  
UF DOUGLAS MILITARY AIRCRAFT  
NT A-1 AIRCRAFT  
A-3 AIRCRAFT  
A-4 AIRCRAFT  
B-66 AIRCRAFT  
C-9 AIRCRAFT  
C-47 AIRCRAFT  
C-54 AIRCRAFT  
C-118 AIRCRAFT  
C-124 AIRCRAFT  
C-133 AIRCRAFT  
D-558 AIRCRAFT  
DC 3 AIRCRAFT  
DC 7 AIRCRAFT  
DC 8 AIRCRAFT  
DC 9 AIRCRAFT  
DC 10 AIRCRAFT  
PD-808 AIRCRAFT  
X-3 AIRCRAFT  
BT #MCDONNELL DOUGLAS AIRCRAFT  
RT AIRCRAFT  
DOUGLAS D-558 AIRCRAFT  
USE D-558 AIRCRAFT  
DOUGLAS DC-3 AIRCRAFT  
USE DC 3 AIRCRAFT  
DOUGLAS DC-7 AIRCRAFT  
USE DC 7 AIRCRAFT  
DOUGLAS DC-8 AIRCRAFT  
USE DC 8 AIRCRAFT  
DOUGLAS DC-9 AIRCRAFT  
USE DC 9 AIRCRAFT  
DOUGLAS MILITARY AIRCRAFT  
USE DOUGLAS AIRCRAFT

## DRAG

DOUGLAS PD-808 AIRCRAFT  
USE PD-808 AIRCRAFT  
DOVAP  
USE DOPPLER EFFECT  
DOWN-CONVERTERS  
0710 1413 2402  
BT FREQUENCY CONVERTERS  
DOWNRANGE  
1104 1108 1904 3006 3009 3102 3105  
RT BALLISTIC RANGES  
BALLISTIC TRAJECTORIES  
DOWNRANGE MEASUREMENT  
FLIGHT TESTS  
IMPACT PREDICTION  
MISSILE RANGES  
RECOVERY ZONES  
TEST RANGES  
TOUCHDOWN  
#TRAJECTORIES  
DOWNRANGE ANTIMISSILE MEASUREMENT PROGRAM  
1108 1406  
UF DAMP PROGRAM  
BT #PROGRAMS  
RT DOWNRANGE MEASUREMENT  
MEASUREMENT  
DOWNRANGE MEASUREMENT  
1108 1406  
RT DOWNRANGE  
DOWNRANGE ANTIMISSILE MEASUREMENT  
PROGRAM  
MEASUREMENT  
TEST RANGES  
DOWNTIME  
1505 1905  
BT #TIME  
RT FAILURE  
INVENTORY MANAGEMENT  
LOGISTICS  
MAINTENANCE  
MALFUNCTIONS  
MTBF  
RELIABILITY  
SPARE PARTS  
SYSTEM FAILURES  
DOWNWASH  
0101 1202  
RT BACKWASH  
DRAFT  
GROUND EFFECT  
HELICOPTER WAKES  
LIFT AUGMENTATION  
PERIPHERAL JET FLOW  
UPWASH  
#WAKES  
DRACONID METEOROID  
3005  
BT #CELESTIAL BODIES  
METEOROID SHOWERS  
METEOROID  
RT GIACOBINI-ZINNER COMET  
DRAFT  
1203 1408 1504 1704  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BOUNDARY LAYERS  
DOWNWASH  
DRAFT (GAS FLOW)  
DRAFTING (DRAWING)  
UPWASH  
#WAKES  
DRAFT (GAS FLOW)  
1203  
RT DRAFT  
FLUES  
VENTILATION  
DRAFTING (DRAWING)  
3404  
RT DRAFT  
DRAWING  
DRAWINGS  
GRAPHIC ARTS  
DRAFTING MACHINES  
1504 3404  
RT COMPUTERIZED DESIGN  
DESIGN  
MACHINERY  
DRAG  
0101 1202  
UF DRAG COEFFICIENT  
DRAG EFFECT  
NT AERODYNAMIC DRAG

# DRAG BALANCE

ELECTROSTATIC DRAG  
FRICTION DRAG  
INTERFERENCE DRAG  
MINIMUM DRAG  
PRESSURE DRAG  
SATELLITE DRAG  
SUPERSONIC DRAG  
VISCOUS DRAG  
WAVE DRAG  
BT #DYNAMIC CHARACTERISTICS  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
BOUNDARY LAYERS  
DRAG MEASUREMENT  
#FRICTION  
GRAVITATION  
GROUND EFFECT  
LIFT  
SKIN FRICTION  
#WAKES  
DRAG BALANCE  
USE AERODYNAMIC BALANCE  
LIFT DRAG RATIO  
DRAG CHUTES  
0208  
UP DROGUE PARACHUTES  
BT AERODYNAMIC BRAKES  
#BRAKES (FOR ARRESTING MOTION)  
#DRAG DEVICES  
PARACHUTES  
RT AIRCRAFT BRAKES  
BALLUTES  
RIBBON PARACHUTES  
TOWED BODIES  
DRAG COEFFICIENT  
USE AERODYNAMIC COEFFICIENTS  
DRAG  
#DRAG DEVICES  
0104 0203 0208  
UP DRAGULATORS  
NT AERODYNAMIC BRAKES  
BALLUTES  
DRAG CHUTES  
LEADING EDGE SLATS  
PARAVULCOONS  
SPLIT FLAPS  
SPOILERS  
TRAILING-EDGE FLAPS  
WING FLAPS  
RT ABORT APPARATUS  
AIRCRAFT BRAKES  
BOUNDARY LAYER CONTROL  
#BRAKES (FOR ARRESTING MOTION)  
#CONTROL SURFACES  
FLAPS (CONTROL SURFACES)  
LIFT DEVICES  
SKIN FRICTION  
DRAG EFFECT  
USE DRAG  
DRAG MEASUREMENT  
0101 1202 1406 1408  
BT #MECHANICAL MEASUREMENT  
RT AERODYNAMIC DRAG  
DRAG  
ELECTROSTATIC DRAG  
FLOW MEASUREMENT  
MEASUREMENT  
#MEASURING INSTRUMENTS  
DRAG REDUCTION  
0101 0104 1202 3404  
RT AERODYNAMIC DRAG  
#FLUID FLOW  
#FRICTION  
LIFT DRAG RATIO  
REDUCTION  
DRAGULATORS  
USE #BRAKES (FOR ARRESTING MOTION)  
#DRAG DEVICES  
DRAINAGE  
0505  
UP DRAINING  
RT DISCHARGE  
EVACUATING (VACUUM)  
EXCAVATION  
HYDROLOGY  
IRRIGATION  
MINES (EXCAVATIONS)  
PERMEABILITY  
PUMPING  
SEEPAGE  
SUMPS  
TUNNELING (EXCAVATION)

WASTE DISPOSAL  
WATER FLOW  
DRAWING  
USE DRAINAGE  
DRAWING  
0602 1704  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BUNDLE DRAWING  
COLD DRAWING  
DRAWING (DRAWING)  
DRAWINGS  
EXTRUDING  
LAYOUTS  
METAL DRAWING  
PULLING  
STRETCH FORMING  
STRETCHING  
TEMPERING  
DRAWINGS  
3404  
UP ELEVATIONS (DRAWINGS)  
NT BLUEPRINTS  
ENGINEERING DRAWINGS  
BT #DOCUMENTS  
RT #CHARTS  
CROSS SECTIONS  
DIAGRAMS  
#DIMENSIONS  
#DOCUMENTS  
DRAWING (DRAWING)  
DRAWING  
GRAPHIC ARTS  
INKS  
LAYOUTS  
PLANS  
PROJECTION  
REPRESENTATIONS  
REPRODUCTION (COPYING)  
SPECIFICATIONS  
TRACING  
VISUAL AIDS  
DRC (CAPSULE)  
USE DISCOVERER RECOVERY CAPSULES  
DREAMS  
0404 0408  
RT RAPID EYE MOVEMENT STATE  
SLEEP  
DREWS (SATELLITES)  
USE DIRECT READOUT EQUATORIAL WEATHER  
SAT  
DRIPT  
0201 0702 1001 1406 1905 2103 2602  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DEVIATION  
DIVERGENCE  
DRIPT (INSTRUMENTATION)  
DRIPT RATE  
FLIGHT PATHS  
IONOSPHERIC DRIPT  
#STABILITY  
DRIPT (INSTRUMENTATION)  
1402 1406  
UP INSTRUMENT DRIPT  
RT ACCURACY  
CIRCUIT RELIABILITY  
DRIPT  
DRIPT RATE  
DYNAMIC STABILITY  
ERRORS  
INSTRUMENT ERRORS  
STATIC STABILITY  
TOLERANCES (MECHANICS)  
DRIPT RATE  
0201 0702 1001 1406 1905 2103 2602  
BT #RATES (PER TIME)  
RT DRIPT  
DRIPT (INSTRUMENTATION)  
IONOSPHERIC DRIPT  
MOBILITY  
ORBIT PERTURBATION  
ORBITAL MECHANICS  
ROTATING PLASMAS  
#STABILITY  
TRAJECTORY CONTROL  
DRILL BITS  
1504  
BT #CUTTERS  
#TOOLS

# NASA THESAURUS (ALPHABETICAL LISTING)

RT BITS  
DRILLING  
DRILLS  
DRILLING  
1504 3404  
RT CORE SAMPLING  
CUTTING  
DRILL BITS  
DRILLS  
#EXPLORATION  
#MACHINING  
OIL EXPLORATION  
PENETRATION  
PERFORATING  
PIERCING  
TUNNELING (EXCAVATION)  
WELLS  
DRILLS  
1504 3404  
BT #CUTTERS  
RT BORING MACHINES  
COMPRESSED AIR  
DRILL BITS  
DRILLING  
MACHINE TOOLS  
TAPS  
#TOOLS  
DRINKING  
0404 1504 3404  
BT INGESTION (BIOLOGY)  
RT BEVERAGES  
SWALLOWING  
DRIVES  
1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #MECHANICAL DRIVES  
MOTIVATION  
#PROPULSION  
SEX  
SLEEP  
WIND TUNNEL DRIVES  
DROGUE PARACHUTES  
USE DRAG CHUTES  
DROGUES  
USE TOWED BODIES  
DRONE AIRCRAFT  
0205  
UP DRONE HELICOPTERS  
RECONNAISSANCE DRONE AIRCRAFT  
NT FIREBEE 2 TARGET DRONE AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
TARGET DRONE AIRCRAFT  
BT #DRONE VEHICLES  
#PILOTLESS AIRCRAFT  
RT ANTISUBMARINE WARFARE AIRCRAFT  
LIGHT AIRCRAFT  
MILITARY AIRCRAFT  
RESEARCH AIRCRAFT  
#V/STOL AIRCRAFT  
DRONE HELICOPTERS  
USE DRONE AIRCRAFT  
HELICOPTERS  
#DRONE VEHICLES  
0201 2102  
NT DRONE AIRCRAFT  
FIREBEE 2 TARGET DRONE AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
TARGET DRONE AIRCRAFT  
RT #PILOTLESS AIRCRAFT  
SANDPIPER TARGET MISSILE  
WINGED VEHICLES  
DROP  
1202 1902 2311  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DROPS (LIQUIDS)  
#GRADIENTS  
DROP CALORIMETERS  
1408  
BT CALORIMETERS  
#MEASURING INSTRUMENTS  
BOMB CALORIMETERS  
FLAME CALORIMETERS  
HEAT MEASUREMENT  
HIGH TEMPERATURE TESTS  
TEMPERATURE MEASURING INSTRUMENTS  
DROP SIZE  
1202 2003 2311  
RT CLOUD PHYSICS

# NASA THESAURUS (ALPHABETICAL LISTING)

#CLOUDS  
CLOUDS (METEOROLOGY)  
CONDENSATES  
CONDENSING  
FOG  
HUMIDITY  
HYDROGEN CLOUDS  
NUCLEATION  
PARTICLE DIFFUSION  
PARTICLE SIZE DISTRIBUTION  
PRECIPITATION  
PRECIPITATION PARTICLE MEASUREMENT  
RAINDROPS

DROP TESTS  
1108 3201 3203 3404  
UF DROP WEIGHT TESTS  
RT CHARPY IMPACT TEST  
DESTRUCTIVE TESTS  
IMPACT TESTS  
NOTCH TESTS  
SHOCK TESTS  
TESTS

DROP WEIGHT TESTS  
USE DROP TESTS

DROPOUTS  
0702  
RT ELECTRIC CONTACTS

DROPS (LIQUIDS)  
1202  
UF LIQUID DROPS  
NT RAINDROPS  
BT PARTICLES  
RT AIR POLLUTION  
CONDENSING  
DROPS  
SPRAYERS

DROPSONDES  
0205 2003  
BT #MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
SONDES  
RT METEOROLOGICAL BALLOONS  
RADIOSONDES  
RAWINSONDES

DROSOPHILA  
0402  
BT #ANIMALS  
ARTHROPODS  
INSECTS  
INVERTEBRATES  
RT CHIRONOMUS FLIES

DROWSINESS  
USE SLEEP

DRUG THERAPY  
USE CHEMOTHERAPY

#DRUGS  
0403 0405  
NT ACTINOMYCIN  
ADRENERGICS  
ANESTHETICS  
ANTHELMINTICS  
ANTIADRENERGICS  
ANTIBIOTICS  
ANTICHOLINERGICS  
ANTICONVULSANTS  
ANTIDIURETICS  
ANTIDOTES  
ANTIEPILEPTICS AND ANTINAUSEANTS  
ANTIHYPERTENSIVES  
ANTIHYPERTENSIVE AGENTS  
ANTIINFECTIVES AND ANTIBACTERIALS  
ANTIRADIATION DRUGS  
ATROPINE  
CAFFEINE  
CENTRAL NERVOUS SYSTEM DEPRESSANTS  
CENTRAL NERVOUS SYSTEM STIMULANTS  
CHLOROPHORM  
CHOLINERGICS  
CORTISONE  
CYCLOPROPANE  
CYSTEINE  
DECONGESTANTS  
DEMULCENTS  
DIGITALIS  
DIMETHYLDIMETHYLAMINE  
DIPHENYL HYDANTOIN  
EPINEPHRINE  
HEMOSTATICS  
HISTAMINES  
HYPERTENSIN  
INSULIN  
METHAMPHETAMINE

METHAPYRILENE  
METRAZOL  
MORPHINE  
MOTION SICKNESS DRUGS  
MUSCLE RELAXANTS  
NARCOTICS  
NEMBUTAL (TRADEMARK)  
NORADRENALINE  
NOREPINEPHRINE  
NOVOCAIN  
PENICILLIN  
PENTOBARBITAL SODIUM  
PROMETHAZINE  
RESERPINE  
SEDATIVES  
STIMULANT  
STREPTOMYCIN  
TETRACYCLINES  
TRANQUILIZERS  
TRIMETHADIONE  
VASOCONSTRICTOR DRUGS  
XYLOCAINE

RT ALKALOIDS  
AMINOPYRINE  
ANALGESIA  
ANESTHESIOLOGY  
BIOFLAVONOIDS  
BIOTIN  
CHEMOTHERAPY  
CURES  
DOSAGE  
ETHERS  
LYSERGAMIDE  
PENTOBARBITAL  
PHENOBARBITAL  
SALICYLATES  
SUBLETHAL DOSAGE  
VACCINES  
VITAMINS

DRUMS  
0505 0801 1103 1502 1504 1704 3202  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DRUMS (CONTAINERS)  
MAGNETIC DRUMS  
MAGNETIC STORAGE

DRUMS (CONTAINERS)  
0505 1103  
(EXCLUDE MAGNETIC COMPUTER MEMORIES)  
RT BARRELS (CONTAINERS)  
BUCKETS  
CANS  
CONTAINERS  
CYLINDERS  
DRUMS  
#TANKS (CONTAINERS)

DRY CELLS  
0302 0604  
NT MAGNESIUM CELLS  
NICKEL ZINC BATTERIES  
BT DIRECT POWER GENERATORS  
ELECTRIC BATTERIES  
#ELECTRIC GENERATORS  
#ELECTROCHEMICAL CELLS  
PRIMARY BATTERIES  
RT METAL AIR BATTERIES  
NICKEL CADMIUM BATTERIES  
STORAGE BATTERIES  
THERMAL BATTERIES

DRY FRICTION  
1503 1504  
BT #FRICTION  
RT ABRASION  
KINETIC FRICTION  
SLIDING FRICTION  
STATIC FRICTION

DRY HEAT  
0504  
BT HEAT  
RT HIGH TEMPERATURE ENVIRONMENTS  
HUMIDITY  
OVENS

DRYDOCKS  
0203 0207 1104 3101 3102 3103  
RT PORTS  
SEA LAUNCHING  
DRYERS (EQUIPMENT)  
USE DRYING APPARATUS

DYING  
0602 1504 3303  
UF DESICCATION

## DUCTED FLOW

DEWETTING  
DEHUMIDIFICATION  
DEHYDRATION  
RT ABSORPTION  
BAKING  
CONCENTRATING  
CURING  
#DIFFUSION  
DRYING APPARATUS  
ENTHALPY  
EVAPORATION  
#FIRING (IGNITING)  
ROASTING  
SEPARATION  
WATER LOSS

DYING APPARATUS  
0602 1504 3303  
UF DRYERS (EQUIPMENT)  
NT DESICCATORS  
BT #SEPARATORS  
RT ABSORBERS (EQUIPMENT)  
COLUMNS (PROCESS ENGINEERING)  
CONDENSERS (LIQUIFIERS)  
DEHYDRATED FOOD  
DRYING  
EVAPORATORS  
FURNACES

DSIF (INSTRUMENTATION FACILITY)  
USE DEEP SPACE INSTRUMENTATION FACILITY

DSN HELICOPTER  
USE QH-50 HELICOPTER

DTA (ANALYSIS)  
USE DIFFERENTIAL THERMAL ANALYSIS

DTHB-111 GROUND EFFECT MACHINE  
USE GROUND EFFECT MACHINES

DTHB-430 GROUND EFFECT MACHINE  
USE GROUND EFFECT MACHINES

DUAL SPIN SPACECRAFT  
3110  
RT SPACECRAFT  
SPACECRAFT STABILITY  
SPIN STABILIZATION

DUAL THRUST NOZZLES  
2702 2808  
RT NOZZLES

DUCTED BODIES  
0102 0103 1202  
RT AXISYMMETRIC BODIES  
BLUFF BODIES  
BLUNT BODIES  
BODIES  
DUCTED FLOW  
DUCTS  
#INTAKE SYSTEMS  
NACELLES  
NOSE INLETS  
SHROUDS  
SLENDER BODIES  
TWO DIMENSIONAL BODIES

DUCTED FAN ENGINES  
2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
RT DUCTED ROCKET ENGINES  
TURBOPAN ENGINES

DUCTED FANS  
1504 2805  
RT BLOWERS  
FANS  
LIFT FANS  
PROPELLER FANS  
RING WINGS  
SHROUDED PROPELLERS  
TURBOPANS  
VENTILATION FANS

DUCTED FLOW  
0101 1202 1203  
NT KNUDSEN FLOW  
BT #FLUID FLOW  
RT AIR FLOW  
CHANNEL FLOW  
DUCTED BODIES  
FLOW GEOMETRY  
FUEL FLOW  
HEAT TRANSMISSION  
WALL FLOW

# DUCTED PROPELLERS

DUCTED PROPELLERS  
 USE SHROUDED PROPELLERS  
 DUCTED ROCKET ENGINES  
 2808  
 BT #ENGINES  
 ROCKET ENGINES  
 RT BOOSTER ROCKET ENGINES  
 DUCTED FAN ENGINES  
 HYBRID ROCKET ENGINES  
 INTERNAL COMBUSTION ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 RESTARTABLE ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 SUSTAINER ROCKET ENGINES

## DUCTILITY

1704 3408  
 BT #MECHANICAL PROPERTIES  
 RT BRITTLENESS  
 COMPRESSIVE STRENGTH  
 CREEP PROPERTIES  
 ELONGATION  
 FATIGUE (MATERIALS)  
 FLATTENING  
 FRACTOGRAPHY  
 FRACTURE STRENGTH  
 HARDNESS  
 IMPACT STRENGTH  
 MALLEABILITY  
 METAL DRAWING  
 NOTCH STRENGTH  
 PLASTIC PROPERTIES  
 SHEAR PROPERTIES  
 STRESS RELAXATION  
 STRETCHING  
 TEMPER (METALLURGY)  
 TENSILE STRENGTH  
 TOUGHNESS  
 TRESCA FLOW  
 WELDABILITY

## DUCTS

1504 3202  
 NT ACOUSTIC DUCTS  
 AIR DUCTS  
 RT BAPPIES  
 CAVITIES  
 CHANNELS  
 DUCTED BODIES  
 EXHAUST SYSTEMS  
 FLUES  
 #INTAKE SYSTEMS  
 NOSE INLETS  
 #OPENINGS  
 ORIFICES  
 OUTLETS  
 PIPES (TUBES)  
 PLENUM CHAMBERS  
 PORTS (OPENINGS)  
 SCOOPS  
 THROATS  
 TUBES  
 VENTILATION  
 VENTS  
 WINDOWS (APERTURES)

## DUFFING DIFFERENTIAL EQUATION

1902 1905  
 BT #ALGEBRA  
 #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 NONLINEAR EQUATIONS  
 REAL VARIABLES  
 RT PROBABILITY THEORY

## DULLNESS

USE LUSTER

## DUMMIES

0802 2806  
 RT DECOYS  
 #MODELS  
 #SIMULATORS

## DUNNY LOADS

USE #IMPEDANCE  
 LOADING  
 OUTPUT

## DUMPING

0802  
 RT DISPOSAL  
 EJECTION  
 EMPTYING  
 EXPULSION  
 JETTISONING  
 MATERIALS HANDLING  
 RELEASING  
 SPILLING

SPREADING  
 UNLOADING  
 DUWALIELLA  
 0404 0407 0409  
 BT ALGAE  
 #PLANTS (BOTANY)  
 DUNGEYS WIND SHEAR MECHANISM  
 USE WIND SHEAR

## DUNITE

1306 1806  
 BT IGNEOUS ROCKS  
 ROCKS  
 RT #MINERALS  
 OLIVINE

## PERIDOTITE

## DUOCHROMATORS

1106 2306 2310  
 RT #ELECTROMAGNETIC RADIATION  
 GENERATORS  
 LIGHT SOURCES  
 #MEASURING INSTRUMENTS  
 MONOCHROMATORS  
 RADIATION SOURCES  
 SPECTROPHOTOMETERS

## DUOPLASMATRONS

0601 1203 2501  
 NT VON ARDENNE DUOPLASMATRONS  
 BT #ION SOURCES  
 #PLASMA GENERATORS  
 PLASMATRONS  
 RT ELECTRIC DISCHARGES  
 ION PROPULSION  
 PLASMA PROPULSION  
 SPUTTERING  
 DUPLEX OPERATION  
 0702  
 RT METALLURGY  
 PHASE SHIFT CIRCUITS  
 SWITCHING CIRCUITS

## DUPLEXERS

0702 0705 0901 0902 0905  
 RT #CIRCUITS  
 CIRCULATORS (PHASE SHIFT CIRCUITS)  
 MAGIC TEES  
 MONOPULSE RADAR  
 RECEIVERS  
 SWITCHING CIRCUITS  
 #TRANSMITTERS

## DUPPLICATING

USE REPRODUCTION (COPYING)

## DURABILITY

1505 3408  
 RT CORROSION  
 CUMULATIVE DAMAGE  
 #DAMAGE  
 DEGRADATION  
 DETERIORATION  
 ENDURANCE  
 LIFE (DURABILITY)  
 LONG TERM EFFECTS  
 #MECHANICAL PROPERTIES  
 PHYSICAL PROPERTIES  
 QUALITY  
 RELIABILITY  
 RESISTANCE  
 RUGGEDNESS  
 #STABILITY  
 VULNERABILITY  
 WEAR

## DURATION

USE #TIME

## DURENE

1808  
 BT #HYDROCARBONS

## #DUST

1106 1505 1506 2003 3005 3009  
 RT COSMIC DUST  
 INTERPLANETARY DUST  
 LUNAR DUST  
 METEOROID DUST CLOUDS  
 TERRESTRIAL DUST BELT  
 ZODIACAL DUST  
 RT AEROSOLS  
 AIR POLLUTION  
 CLEANING  
 #CLOUDS  
 COMBUSTION PRODUCTS  
 CONTAMINANTS  
 DIRT  
 DISPERSION  
 DISPERSIONS  
 DUST COLLECTORS

# NASA THESAURUS (ALPHABETICAL LISTING)

## FUMES

#PARTICLES  
 POLLEN  
 POWDER (PARTICLES)  
 SANDS  
 SMOKE  
 SPACE DEBRIS

## DUST COLLECTORS

1406 2901 2902 2903  
 BT #ACCUMULATORS  
 #SEPARATORS  
 RT AIR FILTERS  
 #DUST  
 ELECTROSTATIC PRECIPITATORS  
 EXHAUST SYSTEMS  
 PRECIPITATORS

## DWARF STARS

3001 3002  
 NT SUBDWARF STARS  
 WHITE DWARF STARS  
 BT #CELESTIAL BODIES  
 STARS  
 RT MAIN SEQUENCE STARS

## DWELL

1504 2801 3404 3408  
 RT DELAY  
 IGNITION SYSTEMS  
 TIMING DEVICES

## DYADICS

1902 2308 2601 3203  
 BT #ALGEBRA  
 POLYNOMIALS  
 RT VECTORS (MATHEMATICS)  
 DYALPUR METEORITE  
 3005  
 BT ACHONDRITES  
 #CELESTIAL BODIES  
 METEORITES  
 STONY METEORITES

## DYES

0403 0603 1808  
 NT METHYLENE BLUE  
 ORCEIN  
 TRIAZINE (TRADEMARK)  
 RT ACRIFLAVINE  
 ANILINE  
 ANTHRAQUINONES  
 AZINES  
 AZO COMPOUNDS  
 MARKERS

## DYNA-SOAR SPACE GLIDER

USE X-20 AIRCRAFT  
 #DYNAMIC CHARACTERISTICS  
 3408  
 UP DYNAMIC PROPERTIES  
 NT AERODYNAMIC DRAG  
 AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 ATTITUDE STABILITY  
 BOUNDARY LAYER STABILITY  
 COMBUSTION STABILITY  
 CONTROL STABILITY  
 DIRECTIONAL STABILITY  
 DRAG  
 DYNAMIC PRESSURE  
 DYNAMIC STABILITY  
 ELECTROSTATIC DRAG  
 FLAME STABILITY  
 FLOW CHARACTERISTICS  
 FLOW DISTRIBUTION  
 FLOW STABILITY  
 FLOW VELOCITY  
 FREQUENCY STABILITY  
 FRICTION DRAG  
 GYROSCOPIC STABILITY  
 HOVERING STABILITY  
 INTERFERENCE DRAG  
 INTERFERENCE LIFT  
 JET LIFT  
 LATERAL STABILITY  
 LIFT  
 LONGITUDINAL STABILITY  
 LOW SPEED STABILITY  
 MAGNETOHYDRODYNAMIC STABILITY  
 MINIMUM DRAG  
 MOTION STABILITY  
 PRESSURE DRAG  
 ROTARY STABILITY  
 ROTOR LIFT  
 SATELLITE DRAG  
 SPACECRAFT STABILITY  
 SUPERSONIC DRAG

NASA TREASURY (ALPHABETICAL LISTING)

TRANSIENT RESPONSE  
 VISCOUS DRAG  
 WAVE DRAG  
 ZERO LIFT  
 RT ACCURACY  
 AERODYNAMIC BALANCE  
 #AERODYNAMIC CHARACTERISTICS  
 AMPLIFICATION  
 #AUTOMATIC CONTROL  
 AUTOMATIC CONTROL VALVES  
 BANDWIDTH  
 CHARACTERISTICS  
 CONTROL  
 DAMPING  
 #DISTRIBUTION (PROPERTY)  
 DYNAMIC RESPONSE  
 EQUILIBRIUM  
 ERRORS  
 FREQUENCY RESPONSE  
 HYSTERESIS  
 #IMPEDANCE  
 LINEARITY  
 PRECISION  
 #RANGE (EXTREMES)  
 REACTION TIME  
 RELIABILITY  
 REMOTE CONTROL  
 #RESOLUTION  
 RESONANT FREQUENCIES  
 #SENSITIVITY  
 #STABILITY  
 TIME CONSTANT  
 TRANSFER FUNCTIONS  
 DYNAMIC CONTROL  
 0503 0802 1003  
 BT #AUTOMATIC CONTROL  
 RT ADAPTIVE CONTROL  
 CONTROL  
 CONTROL THEORY  
 FEEDBACK CONTROL  
 DYNAMIC LOADS  
 3203  
 NT AERODYNAMIC LOADS  
 BLAST LOADS  
 CYCLIC LOADS  
 GUST LOADS  
 IMPACT LOADS  
 LANDING LOADS  
 ROLLING CONTACT LOADS  
 SHOCK LOADS  
 THRUST LOADS  
 TRANSIENT LOADS  
 VIBRATORY LOADS  
 WING LOADING  
 BT #LOADS (FORCES)  
 RT AXIAL COMPRESSION LOADS  
 AXIAL LOADS  
 COMPRESSION LOADS  
 CRITICAL LOADING  
 EDGE LOADING  
 RANDOM LOADS  
 STATIC LOADS  
 WIND PRESSURE  
 DYNAMIC MODELS  
 1108  
 BT ATMOSPHERIC MODELS  
 #MODELS  
 RT AIRCRAFT MODELS  
 ATMOSPHERIC MODELS  
 MATHEMATICAL MODELS  
 SIMILARITY THEOREM  
 SPACECRAFT MODELS  
 WIND TUNNEL MODELS  
 DYNAMIC MODULUS OF ELASTICITY  
 1809 3203  
 BT ELASTIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 MODULUS OF ELASTICITY  
 RT ULTRASONIC TESTS  
 DYNAMIC PRESSURE  
 1202  
 BT #DYNAMIC CHARACTERISTICS  
 #PRESSURE  
 RT BLAST LOADS  
 IMPACT LOADS  
 #KINETIC THEORY  
 OVERPRESSURE  
 RIEMANN WAVES  
 DYNAMIC PROGRAMMING  
 0802 1902  
 BT OPERATIONS RESEARCH  
 #RESEARCH

RT APPLICATIONS OF MATHEMATICS  
 BELLMAN THEORY  
 CONSTRAINTS  
 CRITICAL PATH METHOD  
 DECISION THEORY  
 FORMALISM  
 LINEAR PROGRAMMING  
 MATHEMATICAL MODELS  
 NONLINEAR SYSTEMS  
 PROGRAMMING  
 STEEPEST DESCENT METHOD  
 DYNAMIC PROPERTIES  
 USE #DYNAMIC CHARACTERISTICS  
 DYNAMIC RESPONSE  
 0101 1001 1002 1202 1308 1504 2311 3203  
 NT TRANSIENT RESPONSE  
 BT #RESPONSES  
 RT AMPLIFICATION  
 DAMPING  
 #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 DYNAMIC TESTS  
 FREQUENCY RESPONSE  
 #IMPEDANCE  
 MODAL RESPONSE  
 RAMP FUNCTIONS  
 REACTION TIME  
 RESPONSE BIAS  
 #SENSITIVITY  
 STEP FUNCTIONS  
 STROKING TESTS  
 TIME CONSTANT  
 TRANSFER FUNCTIONS  
 DYNAMIC STABILITY  
 0101  
 NT AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 ATTITUDE STABILITY  
 BOUNDARY LAYER STABILITY  
 COMBUSTION STABILITY  
 CONTROL STABILITY  
 DIRECTIONAL STABILITY  
 FLAME STABILITY  
 FLOW STABILITY  
 FREQUENCY STABILITY  
 GYROSCOPIC STABILITY  
 HOVERING STABILITY  
 LATERAL STABILITY  
 LONGITUDINAL STABILITY  
 LOW SPEED STABILITY  
 MAGNETOHYDRODYNAMIC STABILITY  
 MOTION STABILITY  
 ROTARY STABILITY  
 SPACECRAFT STABILITY  
 BT #DYNAMIC CHARACTERISTICS  
 #STABILITY  
 RT COUNTERBALANCES  
 DAMPING  
 DIMENSIONAL STABILITY  
 DRIFT (INSTRUMENTATION)  
 DYNAMIC RESPONSE  
 RESONANT VIBRATION  
 SPACECRAFT MOTION  
 STABLE OSCILLATIONS  
 STATIC STABILITY  
 SURFACE STABILITY  
 SYSTEMS STABILITY  
 TRANSIENT RESPONSE  
 DYNAMIC STRUCTURAL ANALYSIS  
 3203  
 UF STRUCTURAL DYNAMICS  
 BT #STRUCTURAL ANALYSIS  
 RT DYNAMICS  
 FLAT PLATES  
 SHOCK SPECTRA  
 DYNAMIC TESTS  
 2808 3009 3106  
 RT AERODYNAMIC PRESSURE  
 AERODYNAMIC STABILITY  
 DYNAMIC RESPONSE  
 FLIGHT TESTS  
 LOW SPEED STABILITY  
 MOTION STABILITY  
 SPIN DYNAMICS  
 SPIN TESTS  
 STATIC TESTS  
 #VIBRATION TESTS  
 DYNAMICS  
 2308  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

DYSPROSIUM 161

RT AERODYNAMICS  
 ASTRODYNAMICS  
 BIODYNAMICS  
 CONTINUUM MECHANICS  
 DYNAMIC STRUCTURAL ANALYSIS  
 ELASTODYNAMICS  
 ELECTRODYNAMICS  
 #EQUATIONS OF MOTION  
 FIELD THEORY (PHYSICS)  
 FLUID DYNAMICS  
 #FLUID MECHANICS  
 GAS DYNAMICS  
 HAMILTONIAN FUNCTIONS  
 HYDRODYNAMICS  
 KINEMATICS  
 KINETICS  
 MOMENTUM  
 MOMENTUM TRANSFER  
 NOTATION  
 PLASMA DYNAMICS  
 RESONANT FREQUENCIES  
 RESONANT VIBRATION  
 SPIN DYNAMICS  
 #STATICS  
 TERRADYNAMICS  
 THERMODYNAMICS  
 VARIATIONAL PRINCIPLES  
 VELOCITY  
 #VIBRATION  
 DYNAMITE  
 3302  
 BT EXPLOSIVES  
 RT NITROGLYCERIN  
 DYNAMO THEORY  
 1307 1308  
 RT EARTH CORE  
 GEOMAGNETISM  
 TELLURIC CURRENTS  
 THEORIES  
 DYNAMOMETERS  
 0301 0904 1406 1504 3303  
 UF ELECTRODYNAMOMETERS  
 BT #ELECTRIC GENERATORS  
 #MEASURING INSTRUMENTS  
 ROTATING GENERATORS  
 RT ERGOMETERS  
 #MECHANICAL MEASUREMENT  
 TEST EQUIPMENT  
 THRUST MEASUREMENT  
 TORQUEMETERS  
 DYNAMOS  
 USE ROTATING GENERATORS  
 DYNODES  
 0903 1002  
 BT #ELECTRODES  
 RT CAMERA TUBES  
 PHOTOMULTIPLIER TUBES  
 SECONDARY EMISSION  
 DYSON THEORY  
 0603 1808 2305 2308  
 RT HEISENBERG THEORY  
 QUANTUM MECHANICS  
 THEORIES  
 DYSPNEA  
 0401 0405 0408  
 BT #RATES (PER TIME)  
 RESPIRATORY RATE  
 SIGNS AND SYMPTOMS  
 DYSPROSIUM  
 0603 1703  
 NT DYSPROSIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS  
 DYSPROSIUM ISOTOPES  
 2406  
 UF DYSPROSIUM 161  
 BT #CHEMICAL ELEMENTS  
 DYSPROSIUM  
 ISOTOPES  
 NUCLIDES  
 RARE EARTH ELEMENTS  
 DYSPROSIUM 161  
 USE DYSPROSIUM ISOTOPES



# E

E-2 AIRCRAFT  
0207  
UF HAWKEYE AIRCRAFT  
W2F AIRCRAFT  
BT GRUMMAN AIRCRAFT  
OBSERVATION AIRCRAFT  
RT PASSENGER AIRCRAFT  
TURBOPROP ENGINES

E-1 LAYER  
1302  
BT E REGION  
#EARTH ATMOSPHERE  
IONOSPHERE  
RT SPORADIC E LAYER

E-2 LAYER  
1302  
BT E REGION  
#EARTH ATMOSPHERE  
IONOSPHERE  
RT SPORADIC E LAYER

E-3 LAYER  
1302  
BT E REGION  
#EARTH ATMOSPHERE  
IONOSPHERE  
RT SPORADIC E LAYER

E LAYERS  
USE E REGION  
E REGION  
1302

UF E LAYERS  
NIGHT E LAYER  
NT E-1 LAYER  
E-2 LAYER  
E-3 LAYER  
SPORADIC E LAYER  
BT #EARTH ATMOSPHERE  
IONOSPHERE  
#REGIONS  
RT LOWER IONOSPHERE  
UPPER IONOSPHERE

EAR  
0404  
NT COCHLEA  
CORTI ORGAN  
EARDRUMS  
EUSTACHIAN TUBES  
LABYRINTH  
MASTOIDS  
MIDDLE EAR  
SEMICIRCULAR CANALS  
VESTIBULES  
BT #ANATOMY  
SENSE ORGANS  
RT ARTIFICIAL EARS  
AUDITORY PERCEPTION  
EAR PROTECTORS  
ENDOLYMPH  
HEARING  
LABYRINTHOTOLOGY  
OTOLARYNGOLOGY  
OTOLOGY

EAR PRESSURE TEST  
0401 0405  
BT PHYSIOLOGICAL TESTS  
RT VERTIGO  
VESTIBULAR TESTS

EAR PROTECTORS  
0508  
BT PROTECTORS  
RT EAR  
NOISE INJURIES  
NOISE REDUCTION

EARDRUMS  
0404  
BT #ANATOMY  
EAR  
SENSE ORGANS  
RT EUSTACHIAN TUBES  
SEMICIRCULAR CANALS

EARLY APOLLO SURFACE EXPERIMENTS PACKAGE  
USE EASEP

EARLY BIRD SATELLITES  
0706 3107 3409  
BT ACTIVE SATELLITES  
ARTIFICIAL SATELLITES  
COMMUNICATION SATELLITES  
EARTH SATELLITES  
#SATELLITES  
SYNCHRONOUS SATELLITES

RT SYNCON SATELLITES  
APPLICATIONS TECHNOLOGY SATELLITES  
COMSAT PROGRAM

EARLY STARS  
3001 3002  
NT PROTOSTARS  
T TAURI STARS  
BT #CELESTIAL BODIES  
STARS  
RT MAIN SEQUENCE STARS  
EARLY WARNING SYSTEMS  
0702 3401  
NT BALLISTIC MISSILE EARLY WARNING  
SYSTEM

BT #WARNING SYSTEMS  
RT AIR DEFENSE  
#DETECTION  
MISSILE DETECTION  
OVER-THE-HORIZON RADAR  
RADAR TARGETS  
RADAR TRACKING  
WARNING

EARPHONES  
0303 0701 1413 2301  
UF HEADSETS  
BT AUDIO EQUIPMENT  
RT ACOUSTICS  
AUDITORY PERCEPTION  
INTERPHONES  
SOUND TRANSMISSION  
TELEPHONES

EARTH (PLANET)  
1308 3008 3009  
UF WORLD  
BT #CELESTIAL BODIES  
PLANETS  
RT EARTH-MOON SYSTEM  
EARTH PLANETARY STRUCTURE  
GEODESY  
GEOELECTRICITY  
GEOGRAPHY  
#GEOLOGY  
GEOMAGNETISM  
GEOPHYSICS  
GLOBES  
POLAR CAPS  
TERRESTRIAL RADIATION

EARTH ALBEDO  
1308 2402 2903  
BT ALBEDO  
RT ABSORPTANCE  
COSMIC RAY ALBEDO  
EBERT SPECTROMETERS  
REFLECTANCE  
TERRESTRIAL RADIATION

#EARTH ATMOSPHERE  
1301 1302 1308 2003 3008  
NT ARTIFICIAL RADIATION BELTS  
CHEMOSPHERE  
D REGION  
E-1 LAYER  
E-2 LAYER  
E-3 LAYER  
E REGION  
EXOSPHERE  
F REGION  
F 1 REGION  
F 2 REGION  
FREE ATMOSPHERE  
HETEROSPHERE  
HOMOSPHERE  
INNER RADIATION BELT  
IONOSPHERE  
LOWER ATMOSPHERE  
LOWER IONOSPHERE  
MAGNETOPAUSE  
MAGNETOSPHERE  
MESOPAUSE  
MESOSPHERE  
MIDLATITUDE ATMOSPHERE  
OUTER RADIATION BELT  
OZONOSPHERE  
PROTON BELTS  
RADIATION BELTS  
SPORADIC E LAYER  
AEROSPACE ENVIRONMENTS

RT AIR  
AIR POLLUTION  
AIRGLOW  
ATMOSPHERES  
ATMOSPHERIC CIRCULATION  
ATMOSPHERIC COMPOSITION

ATMOSPHERIC ELECTRICITY  
#ATMOSPHERIC ENTRY  
AURORAS  
BIOASTRONAUTICS  
EARTH HYDROSPHERE  
EARTH PLANETARY STRUCTURE  
EARTH SURFACE  
GEOPOTENTIAL HEIGHT  
GREENHOUSE EFFECT  
METEOR TRAILS  
PLANETARY ATMOSPHERES  
SCALE HEIGHT  
WEATHERING

EARTH AXIS  
0201 2103 3006  
BT #AXES (REFERENCE LINES)  
AXES OF ROTATION  
RT #COORDINATES  
GEODESY

EARTH CORE  
1307 1308  
BT CORES  
LITHOSPHERE  
RT DYNAMO THEORY  
EARTH PLANETARY STRUCTURE

EARTH CRUST  
1306 1308 1310  
BT #CRUSTS  
LITHOSPHERE  
RT CONTINENTAL DRIFT  
CORE SAMPLING  
EARTH MANTLE  
EARTH PLANETARY STRUCTURE  
EARTH SURFACE  
LUNAR CRUST

EARTH CURRENTS  
USE TELLURIC CURRENTS  
EARTH ENVIRONMENT  
1301 1302 1308  
BT #ENVIRONMENTS  
RT AIR POLLUTION

EARTH FIGURE  
USE GEODESY  
EARTH HYDROSPHERE  
0505 1310 2003  
UF BIOSPHERE  
HYDROSPHERE (EARTH)  
RT #EARTH ATMOSPHERE  
HYDROLOGY  
LAKES  
OCEANS  
SEAS

EARTH LIMB  
3001 3008  
RT ASTRONOMY  
LIBRATION  
LIMBS

EARTH MANTLE  
1306 1308  
UF MANTLE (EARTH STRUCTURE)  
BT LITHOSPHERE  
RT EARTH CRUST  
EARTH PLANETARY STRUCTURE

EARTH-MARS TRAJECTORIES  
1904 3006 3007 3009  
BT SPACECRAFT TRAJECTORIES  
#TRAJECTORIES  
RT ELLIPTICAL ORBITS  
ORBITAL MECHANICS  
TRANSFER ORBITS

EARTH-MERCURY TRAJECTORIES  
1904 3006 3007 3009  
BT INTERPLANETARY TRAJECTORIES  
SPACECRAFT TRAJECTORIES  
#TRAJECTORIES  
RT ELLIPTICAL ORBITS  
ORBITAL MECHANICS  
TRANSFER ORBITS

EARTH-MOON SYSTEM  
1308 1901 2311  
RT EARTH (PLANET)  
GRAVITATIONAL FIELDS  
GRAVITATIONAL WAVES  
MOON  
NATURAL SATELLITES  
ORBITAL MECHANICS  
SOLAR SYSTEM  
SYSTEMS  
TWO BODY PROBLEM  
EARTH-MOON TRAJECTORIES  
1601 1904 2308 2311  
BT LUNAR TRAJECTORIES

## EARTH MOTION

SPACECRAFT TRAJECTORIES  
 #TRAJECTORIES  
 RT APOLLO 5 FLIGHT  
 APOLLO 6 FLIGHT  
 APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 9 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT  
 APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 CIRCUMLUNAR TRAJECTORIES  
 CISELUNAR SPACE  
 EARTH ORBITS  
 INTERPLANETARY TRAJECTORIES  
 LUNAR FLIGHT  
 LUNAR ORBITS  
 MOON-EARTH TRAJECTORIES  
 PARKING ORBITS  
 RENDEZVOUS TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 TRANSFER ORBITS  
 EARTH MOTION  
 1901 3002  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT EARTH MOVEMENTS  
 EARTH ROTATION  
 SOLAR ORBITS  
 EARTH MOVEMENTS  
 1306 1308  
 NT EARTHQUAKES  
 RT AVALANCHES  
 CREVASSES  
 EARTH MOTION  
 LARGE APERTURE SEISMIC ARRAY  
 SEISMIC WAVES  
 SEISMOLOGY  
 TECTONICS  
 TSUNAMI WAVES  
 EARTH ORBITAL RENDEZVOUS  
 1904 3006 3009  
 UF BOR (RENDEZVOUS)  
 BT #MANEUVERS  
 ORBITAL RENDEZVOUS  
 #RENDEZVOUS  
 SIDESLIP  
 RT SPACE RENDEZVOUS  
 LUNAR ORBITAL RENDEZVOUS  
 ORBITAL MECHANICS  
 RENDEZVOUS TRAJECTORIES  
 SPACECRAFT TRAJECTORIES  
 TRANSFER ORBITS  
 EARTH ORBITING SPACE STATIONS  
 USE BOSS  
 EARTH ORBITS  
 1901 1904 3006  
 (ORBITS AROUND THE EARTH)  
 NT APOGEE  
 PERIGEE  
 BT #ORBITS  
 RT CIRCULAR ORBITS  
 CIRCUMLUNAR TRAJECTORIES  
 EARTH-MOON TRAJECTORIES  
 ELLIPTICAL ORBITS  
 EQUATORIAL ORBITS  
 HANSEN LUNAR THEORY  
 HILL LUNAR THEORY  
 HILL METHOD  
 LUNAR ORBITS  
 ORBITAL MECHANICS  
 PARKING ORBITS  
 PLANETARY ORBITS  
 POLAR ORBITS  
 SATELLITE ORBITS  
 SPACECRAFT ORBITS  
 STATIONARY ORBITS  
 TRANSFER ORBITS  
 TWENTY-FOUR HOUR ORBITS  
 EARTH PLANETARY STRUCTURE  
 1304 1306 1308 2003  
 BT LITHOSPHERE  
 RT CONTINENTAL DRIFT  
 EARTH (PLANET)  
 #EARTH ATMOSPHERE  
 EARTH CORE  
 EARTH CRUST  
 EARTH MANTLE

EARTH SURFACE  
 #GEOLOGY  
 GEOPHYSICS  
 HYDROLOGY  
 LITHOSPHERE  
 OCEANOGRAPHY  
 PLANETARY COMPOSITION  
 STRUCTURES  
 TECTONICS  
 EARTH RADIATION  
 USE TERRESTRIAL RADIATION  
 EARTH RESOURCES  
 1303 1306 1308 1310  
 NT COAL  
 CRUDE OIL  
 DESERTS  
 FARM CROPS  
 FORESTS  
 GEYSERS  
 GLACIERS  
 GRAINS (FOOD)  
 GRANITE  
 ICEBERGS  
 LAKES  
 LAND ICE  
 LAVA  
 LIMESTONE  
 RANGE RESOURCES  
 RIVERS  
 ROCKS  
 SANDS  
 SANDSTONES  
 SHALES  
 VEGETATION  
 BT #RESOURCES  
 RT BIRDS  
 COASTAL ECOLOGY  
 CROP GROWTH  
 EARTH RESOURCES PROGRAM  
 EARTH RESOURCES TECHNOLOGY  
 SATELLITES  
 ENVIRONMENT POLLUTION  
 FISHES  
 FOOD  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 GROUND WATER  
 ICE MAPPING  
 #IMAGERY  
 LAND USE  
 MAMMALS  
 MARSHLANDS  
 MINERAL DEPOSITS  
 #MINERALS  
 OCEANOGRAPHY  
 #PHOTOGRAPHY  
 #PLANTS (BOTANY)  
 RECONNAISSANCE  
 REMOTE SENSORS  
 #SCANNING  
 #SOILS  
 SPACEBORNE PHOTOGRAPHY  
 SPECTRAL RECONNAISSANCE  
 SURVEILLANCE  
 TERRAIN ANALYSIS  
 TIMBER IDENTIFICATION  
 TIMBER INVENTORY  
 EARTH RESOURCES PROGRAM  
 3409  
 BT NASA PROGRAMS  
 #PROGRAMS  
 RT APOLLO APPLICATIONS PROGRAM  
 EARTH RESOURCES  
 EARTH RESOURCES SURVEY AIRCRAFT  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 SATELLITE OBSERVATION  
 SKYLAB PROGRAM  
 EARTH RESOURCES SURVEY AIRCRAFT  
 0201  
 BT RECONNAISSANCE AIRCRAFT  
 RT AERIAL PHOTOGRAPHY  
 AERIAL RECONNAISSANCE  
 AIRCRAFT  
 EARTH RESOURCES PROGRAM  
 PHOTOGEOLOGY  
 PHOTORECONNAISSANCE  
 EARTH RESOURCES TECHNOLOGY SATELLITES  
 1304 1306 1308 1310 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT EARTH RESOURCES  
 NASA PROGRAMS

## NASA THESAURUS (ALPHABETICAL LISTING)

OCEANOGRAPHY  
 SATELLITE OBSERVATION  
 EARTH ROTATION  
 1308 1901  
 BT #GYRATION  
 ROTATION  
 RT EARTH MOTION  
 EARTH SATELLITES  
 3107 3110  
 NT ACTIVE SATELLITES  
 AEROS SATELLITE  
 ALOUETTE B SATELLITE  
 ALOUETTE 1 SATELLITE  
 ALOUETTE 2 SATELLITE  
 ALOUETTE SATELLITES  
 ANNA SATELLITES  
 AOSO  
 APPLICATIONS TECHNOLOGY SATELLITES  
 ARIEL 1 SATELLITE  
 ARIEL 2 SATELLITE  
 ARIEL 3 SATELLITE  
 ARIEL SATELLITES  
 ATS 1  
 ATS 2  
 ATS 3  
 ATS 4  
 ATS 5  
 ATS 6  
 ATS 7  
 ATS 8  
 BEACON EXPLORER A  
 BEACON SATELLITES  
 BIOSATELLITE 1  
 BIOSATELLITE 2  
 BIOSATELLITE 3  
 BIOSATELLITES  
 COMMUNICATION SATELLITES  
 COSMOS 1 SATELLITE  
 COSMOS 2 SATELLITE  
 COSMOS 3 SATELLITE  
 COSMOS 4 SATELLITE  
 COSMOS 5 SATELLITE  
 COSMOS 6 SATELLITE  
 COSMOS 7 SATELLITE  
 COSMOS 8 SATELLITE  
 COSMOS 11 SATELLITE  
 COSMOS 12 SATELLITE  
 COSMOS 14 SATELLITE  
 COSMOS 15 SATELLITE  
 COSMOS 17 SATELLITE  
 COSMOS 41 SATELLITE  
 COSMOS 44 SATELLITE  
 COSMOS 53 SATELLITE  
 COSMOS 54 SATELLITE  
 COSMOS 55 SATELLITE  
 COSMOS 71 SATELLITE  
 COSMOS 110 SATELLITE  
 COSMOS 137 SATELLITE  
 COSMOS 144 SATELLITE  
 COSMOS 149 SATELLITE  
 COSMOS 166 SATELLITE  
 COSMOS 186 SATELLITE  
 COSMOS 188 SATELLITE  
 COSMOS 206 SATELLITE  
 COSMOS 213 SATELLITE  
 COSMOS 224 SATELLITE  
 COSMOS 225 SATELLITE  
 COSMOS SATELLITES  
 COURIER SATELLITE  
 D-1 SATELLITE  
 DIADENE SATELLITE  
 DIRECT READOUT EQUATORIAL WEATHER  
 SAT  
 DISCOVERER 5 SATELLITE  
 DISCOVERER 6 SATELLITE  
 DISCOVERER 15 SATELLITE  
 DISCOVERER 17 SATELLITE  
 DISCOVERER 18 SATELLITE  
 DISCOVERER 29 SATELLITE  
 DISCOVERER 30 SATELLITE  
 DISCOVERER 31 SATELLITE  
 DISCOVERER 32 SATELLITE  
 DISCOVERER 36 SATELLITE  
 DISCOVERER 38 SATELLITE  
 DISCOVERER SATELLITES  
 DODGE SATELLITE  
 EARLY BIRD SATELLITES  
 EARTH RESOURCES TECHNOLOGY  
 SATELLITES  
 ECHO 1 SATELLITE  
 ECHO 2 SATELLITE  
 ECHO SATELLITES

## NASA THESAURUS (ALPHABETICAL LISTING)

EGO  
 ELEKTRON 1 SATELLITE  
 ELEKTRON 2 SATELLITE  
 ELEKTRON 4 SATELLITE  
 ELEKTRON SATELLITES  
 ENVIRONMENTAL RESEARCH SATELLITES  
 EOSS  
 ERS 17  
 ERS 18  
 ESRO 1 SATELLITE  
 ESRO 2 SATELLITE  
 ESRO SATELLITES  
 ESSA 1 SATELLITE  
 ESSA 2 SATELLITE  
 ESSA 3 SATELLITE  
 ESSA 4 SATELLITE  
 ESSA 5 SATELLITE  
 ESSA 6 SATELLITE  
 ESSA 7 SATELLITE  
 ESSA 8 SATELLITE  
 ESSA 9 SATELLITE  
 ESSA SATELLITES  
 EUROPEAN SPACE RESEARCH  
 ORGANIZATION SAT  
 EUROPEAN 1 SPACECRAFT  
 EVASIVE SATELLITES  
 EXPLORER S-46 SATELLITE  
 EXPLORER S-55 SATELLITE  
 EXPLORER S-46  
 EXPLORER S-55  
 EXPLORER 1 SATELLITE  
 EXPLORER 2 SATELLITE  
 EXPLORER 3 SATELLITE  
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 EXPLORER 40 SATELLITE  
 EXPLORER 41 SATELLITE  
 EXPLORER 42 SATELLITE  
 EXPLORER 43 SATELLITE  
 EXPLORER SATELLITES  
 FRENCH SATELLITE  
 GEODETIC SATELLITES  
 GEOPHYSICAL SATELLITES  
 GEOS-C SATELLITE  
 GEOS 1 SATELLITE  
 GEOS 2 SATELLITE  
 GREB 5 SATELLITE  
 HEOS A SATELLITE  
 HEOS B SATELLITE  
 HEOS SATELLITES  
 INJUN 1 SATELLITE  
 INJUN 2 SATELLITE  
 INJUN 3 SATELLITE  
 INJUN 4 SATELLITE  
 INJUN SATELLITES  
 INSPECTOR SATELLITE  
 INTELSAT SATELLITES  
 ISIS-A

ISIS-B  
 ISIS-C  
 ISIS-X  
 LARGOS SATELLITE  
 LINCOLN EXPERIMENTAL SATELLITES  
 LOW FREQUENCY TRANSIONOSPHERIC  
 SATELLITES  
 METEOROLOGICAL SATELLITES  
 MICROMETEOROID EXPLORER SATELLITES  
 MIDAS 2 SATELLITE  
 MIDAS 3 SATELLITE  
 MIDAS 4 SATELLITE  
 MIDAS 5 SATELLITE  
 MIDAS 6 SATELLITE  
 MIDAS 7 SATELLITE  
 MIDAS SATELLITES  
 MOLNIYA SATELLITES  
 MOON  
 NAVIGATION SATELLITES  
 NAVSTAR SATELLITES  
 NIMBUS 1 SATELLITE  
 NIMBUS 2 SATELLITE  
 NIMBUS 3 SATELLITE  
 NIMBUS 4 SATELLITE  
 NIMBUS 5 SATELLITE  
 NIMBUS 6 SATELLITE  
 NIMBUS SATELLITES  
 OAO  
 OGO  
 OGO-A  
 OGO-B  
 OGO-C  
 OGO-D  
 OGO-E  
 OGO-F  
 ORBIS  
 ORBIS CAL SATELLITE  
 OSO  
 OSO-B  
 OSO-C  
 OSO-F  
 OSO-G  
 OSO-H  
 OSO-1  
 OSO-2  
 OSO-4  
 OSO-4  
 OUTER PLANETS EXPLORERS  
 PAGEOS SATELLITE  
 PAS  
 PEGASUS SATELLITES  
 POGO  
 POLYOT SATELLITES  
 PROTON 1 SATELLITE  
 PROTON 3 SATELLITE  
 PROTON 4 SATELLITE  
 PROTON SATELLITES  
 RADIO ASTRONOMY EXPLORER SATELLITE  
 RELAY 1 SATELLITE  
 RELAY 2 SATELLITE  
 RELAY SATELLITES  
 SAN MARCO SATELLITE  
 SAN MARCO 1 SATELLITE  
 SAN MARCO 2 SATELLITE  
 SCORE SATELLITE  
 SIRS B SATELLITE  
 SNAPSHOT SATELLITE  
 SOLAR RADIATION 1 SATELLITE  
 SOLAR RADIATION 3 SATELLITE  
 SPUTNIK 1 SATELLITE  
 SPUTNIK 2 SATELLITE  
 SPUTNIK 3 SATELLITE  
 SPUTNIK 4 SATELLITE  
 SPUTNIK 5 SATELLITE  
 SPUTNIK 6 SATELLITE  
 SPUTNIK 7 SATELLITE  
 SPUTNIK 8 SATELLITE  
 SPUTNIK SATELLITES  
 SYNCHRONOUS METEOROLOGICAL  
 SATELLITE  
 SYNCOM 1 SATELLITE  
 SYNCOM 2 SATELLITE  
 SYNCOM 3 SATELLITE  
 SYNCOM SATELLITES  
 TELSTAR 1 SATELLITE  
 TELSTAR 2 SATELLITE  
 TELSTAR SATELLITES  
 TIROS M  
 TIROS 1 SATELLITE  
 TIROS 2 SATELLITE  
 TIROS 3 SATELLITE  
 TIROS 4 SATELLITE

## EATING

TIROS 5 SATELLITE  
 TIROS 6 SATELLITE  
 TIROS 7 SATELLITE  
 TIROS 8 SATELLITE  
 TIROS 9 SATELLITE  
 TIROS 10 SATELLITE  
 TIROS SATELLITES  
 TRANSIT 1A SATELLITE  
 TRANSIT 2A SATELLITE  
 TRANSIT 4A SATELLITE  
 TRANSIT 5A SATELLITE  
 TRANSIT ATTITUDE CONTROL SATELLITE  
 TRANSIT 1B SATELLITE  
 TRANSIT 3B SATELLITE  
 TRANSIT 4B SATELLITE  
 TRANSIT SATELLITES  
 VANGUARD 1 SATELLITE  
 VANGUARD 2 SATELLITE  
 VANGUARD 3 SATELLITE  
 VANGUARD SATELLITES  
 VELA SATELLITES  
 VENERA 4 SATELLITE  
 VENERA 5 SATELLITE  
 VENERA 6 SATELLITE  
 VENERA SATELLITES  
 BT #SATELLITES  
 RT ARTIFICIAL SATELLITES  
 GRAVITY GRADIENT SATELLITES  
 INFLATABLE SPACECRAFT  
 #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 #MILITARY SPACECRAFT  
 NATURAL SATELLITES  
 ORBITAL SPACE STATIONS  
 #ORBITS  
 PASSIVE SATELLITES  
 SPACE LABORATORIES  
 SPACECRAFT  
 SYNCHRONOUS SATELLITES  
 #UNMANNED SPACECRAFT  
 EARTH SHAPE  
 USE GEODESY  
 EARTH SURFACE  
 1306 1308 1310  
 BT LITHOSPHERE  
 RT #EARTH ATMOSPHERE  
 EARTH CRUST  
 EARTH PLANETARY STRUCTURE  
 MARSHLANDS  
 OCEAN SURFACE  
 PLANETARY SURFACES  
 SURFACES  
 TERRADYNAMICS  
 TOPOGRAPHY  
 EARTH-VENUS TRAJECTORIES  
 1904 3006 3007 3009  
 BT SPACECRAFT TRAJECTORIES  
 #TRAJECTORIES  
 RT ASTRONAUTICS  
 FLIGHT OPTIMIZATION  
 INTERPLANETARY FLIGHT  
 INTERPLANETARY TRAJECTORIES  
 MISSIONS  
 #ORBITS  
 SPACE MISSIONS  
 SPACE NAVIGATION  
 SPACECRAFT REENTRY  
 EARTHQUAKES  
 1308 2003  
 BT EARTH MOVEMENTS  
 RT GEOLOGICAL FAULTS  
 LARGE APERTURE SEISMIC ARRAY  
 MICROSEISMS  
 ROUSE BELTS  
 SEISMIC WAVES  
 SEISMOLOGY  
 SHOCK WAVES  
 TREMORS  
 TSUNAMI WAVES  
 EASEP  
 3004  
 UP EARLY APOLLO SURFACE EXPERIMENTS  
 PACKAGE  
 BT INSTRUMENT PACKAGES  
 PACKAGES  
 RT INSTRUMENTS  
 LUNAR EXPLORATION  
 PAYLOADS  
 EATING  
 0408 0505  
 BT INGESTION (BIOLOGY)  
 RT DEGLUTITION

# EBERT SPECTROMETERS

DIGESTING  
FOOD  
MASTICATION  
SPACE FLIGHT FEEDING  
SWALLOWING  
EBERT SPECTROMETERS  
1404 1406 1411 2310  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
SPECTROMETERS  
RT EARTH ALBEDO  
INFRARED SPECTROMETERS  
ULTRAVIOLET SPECTROMETERS  
EBR-1 REACTOR  
USE EXPERIMENTAL BREEDER REACTOR 1  
EBR-2 REACTOR  
USE EXPERIMENTAL BREEDER REACTOR 2  
EBULLITION  
USE BOILING  
EBWR (REACTOR)  
USE EXPERIMENTAL BOILING WATER REACTORS  
EC-121 AIRCRAFT  
0207 3401  
UP R7V AIRCRAFT  
WARNING STAR AIRCRAFT  
BT LOCKHEED AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT  
RT C-121 AIRCRAFT  
ECCENTRIC GEOPHYSICAL OBSERVATORY  
USE EGO  
ECCENTRIC ORBIT GEOPHYSICAL OBSERVATORY  
USE EGO  
ECCENTRIC ORBITS  
1904 3006  
BT #ORBITS  
ECCENTRICITY  
1902 2308 3006 3408  
RT #ABNORMALITIES  
ASYMMETRY  
BALANCING  
DEVIATION  
ELLIPTICITY  
ELONGATION  
SKEWNESS  
SYMMETRY  
VARIABILITY  
#VARIATIONS  
ECCENTRICS  
1504  
UP CRANKS  
BT CARS  
LINKAGES  
ECHELETTE GRATINGS  
1404 1411 2310  
BT GRATINGS (SPECTRA)  
RT DIFFRACTION  
REFLECTION  
ECHO 1 CARRIER ROCKET  
USE THOR DELTA LAUNCH VEHICLE  
ECHO PROJECT  
0706 3107 3409  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT COMMUNICATION SATELLITES  
ECHO SATELLITES  
PASSIVE SATELLITES  
ECHO 1 SATELLITE  
0706 3107 3409  
UP A-11 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ECHO SATELLITES  
PASSIVE SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
RT ECHO 2 SATELLITE  
THOR DELTA LAUNCH VEHICLE  
ECHO 2 SATELLITE  
0706 3107 3409  
UP A-12 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ECHO SATELLITES  
PASSIVE SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
RT ECHO 1 SATELLITE  
ECHO SATELLITES  
0706 3107 3409

HT ECHO 1 SATELLITE  
ECHO 2 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
PASSIVE SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
RT AGENA B ROCKET VEHICLE  
AGENA ROCKET VEHICLES  
ECHO PROJECT  
SHOTPUT SOUNDING ROCKETS  
ECHO SUPPRESSORS  
0702 0705 1001 2301  
BT #CIRCUITS  
SUPPRESSORS  
NOISE REDUCTION  
PULSE RADAR  
RADIOTELEPHONES  
SONAR  
#SWITCHES  
TELEPHONY  
VOICE COMMUNICATION  
#ECHOES  
0203 1409 2301  
NT ANGELS  
AURORAL ECHOES  
CLUTTER  
LUNAR ECHOES  
LUNAR RADAR ECHOES  
RADAR ECHOES  
RADIO ECHOES  
SIGNAL REFLECTION  
SOLAR RADAR ECHOES  
VENUS RADAR ECHOES  
RT ACOUSTICS  
NOISE (SOUND)  
REVERBERATION  
ECLIPSE PROJECT  
3002  
BT #PROGRAMS  
PROJECTS  
ECLIPSES  
1901 3002  
NT LUNAR ECLIPSES  
SOLAR ECLIPSES  
RT ECLIPSING BINARY STARS  
LUNAR SHADOW  
#OCULTATION  
PENUMBRAS  
UMBRAS  
ECLIPSING BINARY STARS  
3001 3002  
BT BINARY STARS  
#CELESTIAL BODIES  
STARS  
RT ECLIPSES  
STELLAR OCULTATION  
VARIABLE STARS  
ECLIPIC  
1303 1901 1904 3001 3006 3009  
RT PLANETS  
SOLAR ORBITS  
ZODIAC  
ECLOGITE  
1305 1806  
BT ROCKS  
RT GARNETS  
IGNEOUS ROCKS  
PYROXENES  
ECOLOGICAL SYSTEMS  
USE ECOLOGY  
ECOLOGY  
0404  
UP ECOLOGICAL SYSTEMS  
NT COASTAL ECOLOGY  
RT BIOCLIMATOLOGY  
BIOLOGY  
CLOSED ECOLOGICAL SYSTEMS  
#ENVIRONMENTS  
HABITABILITY  
SYMBIOSIS  
ECONOMIC ANALYSIS  
3402 3406  
RT ALLOCATIONS  
COMPARISON  
COST ANALYSIS  
COST ESTIMATES  
COSTS  
ECONOMY  
#EFFICIENCY  
#MANAGEMENT  
VALUE ENGINEERING

# NASA THESAURUS (ALPHABETICAL LISTING)

ECONOMIC FACTORS  
3402 3406  
RT ALLOCATIONS  
BUDGETING  
COSTS  
ECONOMY  
#EFFICIENCY  
#MANAGEMENT  
RESERVES  
#RESOURCES  
ECONOMICS  
3402  
NT DEMAND (ECONOMICS)  
RT COSTS  
EVALUATION  
FIDUCIARIES  
FOREIGN TRADE  
INCOME  
INTERNATIONAL TRADE  
INVESTMENTS  
PREJUDICES  
PROGRESS  
RECESSION  
#RESOURCES  
#STATISTICAL ANALYSIS  
ECONOMY  
3402 3406  
RT COST ESTIMATES  
DECISION MAKING  
ECONOMIC ANALYSIS  
ECONOMIC FACTORS  
FINANCIAL MANAGEMENT  
LOW COST  
MANAGEMENT PLANNING  
ECUADOR  
1305  
RT NATIONS  
SOUTH AMERICA  
EDDIES  
USE VORTICES  
EDDINGTON APPROXIMATION  
2311 2403  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
EDDY CURRENTS  
1202 1203 2003 2307 2603 3303  
(LIMITED TO ELECTRIC CURRENTS)  
BT #ELECTRIC CURRENT  
RT BRAKING  
ELECTRIC CONDUCTORS  
#ELECTRICAL PROPERTIES  
HYSTERESIS  
LOSSES  
#MAGNETIC PROPERTIES  
PHYSICAL PROPERTIES  
VORTICITY TRANSPORT HYPOTHESIS  
EDDY DIFFUSION  
USE TURBULENT DIFFUSION  
EDDY VISCOSITY  
1202 2311 3408  
BT #TRANSPORT PROPERTIES  
VISCOSITY  
RT FLOW CHARACTERISTICS  
FLOW RESISTANCE  
INTERNAL FRICTION  
TURBULENT FLOW  
VISCIOUS DRAG  
VISCIOUS FLOW  
EDEMA  
0405 0408  
BT #DISEASES  
RT #BODY FLUIDS  
DIURESIS  
WATER BALANCE  
EDGE DISLOCATIONS  
2601 3203  
UP SLIP BANDS  
BT CRYSTAL DEFECTS  
CRYSTAL DISLOCATIONS  
#DEFECTS  
#DISLOCATIONS (MATERIALS)  
RT BANDS  
SCREW DISLOCATIONS  
EDGE LOADING  
3203  
RT AERODYNAMIC LOADS  
COMPRESSION LOADS  
DYNAMIC LOADS  
STATIC LOADS  
WING LOADING  
#EDGES  
1504 1704 2601 3203

# NASA THESAURUS (ALPHABETICAL LISTING)

**NT** LEADING EDGES  
 SHARP LEADING EDGES  
 TRAILING EDGES  
**RT** RIMS  
 SCALLOPING  
 SIDES  
 TIPS  
**EDITORIAL SYSTEM**  
 0701 0702 0705 0709 1109  
**RT** SPACECRAFT TRACKING  
**EDITING**  
 0803 3405  
**RT** #DATA PROCESSING  
 DATA REDUCTION  
 EDITING ROUTINES (COMPUTERS)  
 FORMAT  
 TECHNICAL WRITING  
**EDITING ROUTINES (COMPUTERS)**  
 0802  
**BT** #COMPUTER PROGRAMS  
**RT** COMPUTER SYSTEMS PROGRAMS  
 #DATA PROCESSING  
 EDITING  
**EDTA**  
 USE ETHYLENEDIAMINETETRAACETIC ACIDS  
**#EDUCATION**  
 0408 0410 0502 0503 3406 3409  
**UP** INSTRUCTIONS  
 TEACHING  
 TRAINING  
**NT** ASTRONAUT TRAINING  
 EJECTION TRAINING  
 FLIGHT TRAINING  
 GUNNERY TRAINING  
 PILOT TRAINING  
 SPACE FLIGHT TRAINING  
**RT** BEHAVIOR  
 #COMMUNICATING  
 CREATIVITY  
 EXPERIENCE  
 HUMAN FACTORS ENGINEERING  
 INSTRUCTORS  
 #KNOWLEDGE  
 #LEARNING  
 LEARNING THEORY  
 LECTURES  
 MEMORY  
 ORIENTATION  
 PSYCHOMETRICS  
 QUALIFICATIONS  
 SAFETY MANAGEMENT  
 SCHOOLS  
 STUDENTS  
 TESTS  
 TEXTBOOKS  
 TRAINING DEVICES  
 TRANSFER OF TRAINING  
 UNIVERSITIES  
**EDUCATIONAL TELEVISION**  
 0702 3404  
**RT** CLOSED CIRCUIT TELEVISION  
 COLOR TELEVISION  
 #COMMUNICATION EQUIPMENT  
 #LEARNING  
 STEREOTELEVISION  
 TRAINING DEVICES  
**EEG (ELECTROENCEPHALOGRAMS)**  
 USE ELECTROENCEPHALOGRAPHY  
**EFFECTIVENESS**  
 3406  
**NT** COST EFFECTIVENESS  
 SYSTEM EFFECTIVENESS  
**RT** #EFFICIENCY  
**EFFECTORS**  
 USE CONTROL EQUIPMENT  
**EFFECTS**  
 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
**UP** AFFECTS  
**RT** AUGER EFFECT  
 BAUSCHINGER EFFECT  
 BIOLOGICAL EFFECTS  
 CAUSES  
 CHEMICAL EFFECTS  
 COMPRESSIBILITY EFFECTS  
 CORIOLIS EFFECT  
 DOPPLER EFFECT  
 ETTINGSHAUSEN EFFECT  
 GALVANOMAGNETIC EFFECTS  
 GRAVITATIONAL EFFECTS

GREENHOUSE EFFECT  
 GROUND EFFECT  
 GUNN EFFECT  
 ISOTOPE EFFECT  
 JET BLAST EFFECTS  
 KIRKENDALL EFFECT  
 LONG TERM EFFECTS  
 LUNAR EFFECTS  
 MAGNETIC EFFECTS  
 PATHOLOGICAL EFFECTS  
 PELTIER EFFECTS  
 PHOTOELECTRIC EFFECT  
 #PHYSIOLOGICAL EFFECTS  
 POYNTING-ROBERTSON EFFECT  
 PRESSURE EFFECTS  
 #PSYCHOLOGICAL EFFECTS  
 RADIATION EFFECTS  
 REENTRY EFFECTS  
 RELATIVISTIC EFFECTS  
 SCREEN EFFECT  
 SOLAR ACTIVITY EFFECTS  
 STARK EFFECT  
 SOHL EFFECT  
 SURFACE ROUGHNESS EFFECTS  
 TEMPERATURE EFFECTS  
 THERMOMAGNETIC EFFECTS  
 TURBULENCE EFFECTS  
 VIBRATION EFFECTS  
 VIEW EFFECTS  
 WIND EFFECTS  
 ZEEMAN EFFECT  
**EFFERENT NERVOUS SYSTEMS**  
 0404 3408  
**UP** MOTOR SYSTEMS (BIOLOGY)  
**BT** #NERVOUS SYSTEM  
**RT** #SENSORIMOTOR PERFORMANCE  
**EFFERVESCENCE**  
 0603 1202 1203 2311  
**RT** BOILING  
 BUBBLES  
 #SURFACE PROPERTIES  
**#EFFICIENCY**  
 0502 2311 3404 3406  
**UP** HIGH EFFICIENCY  
**NT** COMBUSTION EFFICIENCY  
 COMPRESSOR EFFICIENCY  
 ENERGY CONVERSION EFFICIENCY  
 NOZZLE EFFICIENCY  
 POWER EFFICIENCY  
 PROPELLER EFFICIENCY  
 PROPULSIVE EFFICIENCY  
 THERMODYNAMIC EFFICIENCY  
 TRANSMISSION EFFICIENCY  
**RT** COMFORT  
 COST INCENTIVES  
 COST REDUCTION  
 COSTS  
 ECONOMIC ANALYSIS  
 ECONOMIC FACTORS  
 EFFECTIVENESS  
 FIGURE OF MERIT  
 HUMAN FACTORS ENGINEERING  
 INCENTIVE TECHNIQUES  
 INDEXES (RATIOS)  
 #OPTIMIZATION  
 PERFORMANCE  
 PRODUCTIVITY  
 #RATIOS  
 UTILIZATION  
**EFFLUENTS**  
 0505 3404  
**RT** AIR POLLUTION  
 CONTAMINANTS  
 DISCHARGE  
 EXHAUST GASES  
 FILTRATION  
 SETTLING  
 SEWAGE  
 WASTE DISPOSAL  
 #WASTES  
**EFFLUX**  
 0803 1003 1601  
**RT** OUTPUT  
**EFFORT**  
 0408 0506 3406  
**RT** ABILITIES  
 CONSISTENCY  
 FATIGUE (BIOLOGY)  
 PERFORMANCE  
 PHYSICAL WORK  
**EFFUSIVES**  
 1305 1306

# EINSTEINIUM

**BT** LAVA  
**RT** VOLCANOLOGY  
**EGCR (REACTOR)**  
 USE EXPERIMENTAL GAS COOLED REACTORS  
**EGGS**  
 0404  
**RT** EMBRYOS  
 FETUSES  
 FOOD  
 OVARIES  
**EGO**  
 1308 3107 3409  
**UP** ECCENTRIC GEOPHYSICAL OBSERVATORY  
 ECCENTRIC ORBIT GEOPHYSICAL  
 OBSERVATORY  
**EGO**  
**BT** ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
**RT** AGENA B ROCKET VEHICLE  
 ATLAS LAUNCH VEHICLES  
 POGO  
**EGRESS**  
 1104 3001 3110 3407  
**RT** AIR LOCKS  
 DOORS  
 HATCHES  
 #OPENINGS  
 OUTLETS  
**EGYPT**  
 1305  
**RT** AFRICA  
 NATIONS  
**EIGENFUNCTIONS**  
 USE EIGENVECTORS  
**EIGENSTATES**  
 USE EIGENVECTORS  
**EIGENVALUES**  
 1902 2306 2308  
**UP** CHARACTERISTIC EQUATIONS  
 CHARACTERISTIC FUNCTIONS  
**BT** #ALGEBRA  
 MATRICES (MATHEMATICS)  
 VECTOR SPACES  
**RT** EIGENVECTORS  
 HILL DETERMINANT  
 JACOBI MATRIX METHOD  
 JORDAN FORM  
 POLYNOMIALS  
 ROOTS OF EQUATIONS  
**EIGENVECTORS**  
 1902 2308  
**UP** CHARACTERISTIC EQUATIONS  
 CHARACTERISTIC FUNCTIONS  
 EIGENFUNCTIONS  
 EIGENSTATES  
**BT** #ALGEBRA  
 MATRICES (MATHEMATICS)  
 VECTOR SPACES  
 VECTORS (MATHEMATICS)  
**RT** EIGENVALUES  
 JACOBI MATRIX METHOD  
 MATHEU FUNCTION  
 POLYNOMIALS  
**EIKONAL EQUATION**  
 0710 2301 2306 2309 2402  
**BT** WAVE EQUATIONS  
**RT** EQUATIONS  
 REFRACTED WAVES  
 WAVE FRONTS  
 WAVES  
**EINSTEIN EQUATIONS**  
 1902 2306 2308  
**BT** #ANALYSIS (MATHEMATICS)  
 REAL VARIABLES  
**RT** BROWNIAN MOVEMENTS  
 EQUATIONS  
 #EQUATIONS OF MOTION  
 KINETIC EQUATIONS  
 PROBABILITY THEORY  
**EINSTEINIUM**  
 0603 2406  
**BT** ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 #METALS  
 NUCLIDES

## EJECTION

RADIOACTIVE ISOTOPES  
TRANSURANUM ELEMENTS

EJECTION  
0201 1201 2807  
NT STELLAR MASS EJECTION  
RT BAILOUT  
DISCHARGE  
DISPOSAL  
DUMPING  
EJECTORS  
EMISSION  
EMPTYING  
ESCAPE (ABANDONMENT)  
ESCAPE SYSTEMS  
EVACUATING (TRANSPORTATION)  
EVACUATING (VACUUM)  
EXHAUSTING  
EXPULSION  
EXPULSION BLADDERS  
FLUSHING  
JETTISON SYSTEMS  
JETTISONING  
MATERIALS HANDLING  
PARACHUTE DESCENT  
RELEASING  
REMOVAL  
SHEDDING  
THROWING  
UNLOADING

EJECTION INJURIES  
0401 0405  
BT #INJURIES  
RT BAILOUT  
EJECTION TRAINING  
PILOT TRAINING

EJECTION SEATS  
0203 0208 2806 3104  
BT AIRCRAFT EQUIPMENT  
SAFETY DEVICES  
SEATS  
RT ABORT APPARATUS  
AIRCRAFT SAFETY  
BAILOUT  
COCKPITS  
EJECTORS  
ESCAPE CAPSULES

EJECTION TRAINING  
0502  
BT #EDUCATION  
RT ASTRONAUT TRAINING  
BAILOUT  
EJECTION INJURIES  
ESCAPE (ABANDONMENT)  
FLIGHT TRAINING  
PARACHUTE DESCENT  
PILOT TRAINING

EJECTORS  
0202 0203 0209 1201 1501 2806 3104  
RT DISPENSERS  
EJECTION  
EJECTION SEATS  
EXHAUST DIFFUSERS  
EXHAUST NOZZLES  
EXHAUST SYSTEMS  
INJECTORS  
JET ENGINES  
JET PUMPS  
MATERIALS HANDLING  
#PUMPS  
RENE PROGRAM  
ROCKET ENGINES  
SPRAYERS  
VACUUM PUMPS

EKMAN LAYER  
USE BOUNDARY LAYER TRANSITION

ELASTIC ANISOTROPY  
2603 3408  
BT #ANISOTROPY  
PLASTIC ANISOTROPY  
RT ELASTIC PROPERTIES

ELASTIC BARS  
1406 1408  
BT BARS  
RT ELASTIC PROPERTIES

ELASTIC BENDING  
3203  
BT BENDING  
#DEFORMATION  
ELASTIC DEFORMATION  
RT ELASTIC BUCKLING  
ELASTIC PROPERTIES

## ELASTIC BODIES

1809 3202 3203  
RT BODIES  
ELASTIC CYLINDERS  
ELASTIC MEDIA  
ELASTIC PLATES  
ELASTIC PROPERTIES  
ELASTIC SHEETS  
ELASTIC SHELLS  
ELASTIC SYSTEMS  
ELASTODYNAMICS  
ELASTOSTATICS

ELASTIC BUCKLING  
3203  
BT BUCKLING  
#DEFORMATION  
ELASTIC DEFORMATION  
RT ELASTIC BENDING  
ELASTIC PROPERTIES

ELASTIC COLLISIONS  
USE ELASTIC SCATTERING

ELASTIC CONSTANTS  
USE ELASTIC PROPERTIES

ELASTIC CYLINDERS  
1809 3202 3203  
RT CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL SHELLS  
ELASTIC BODIES  
ELASTIC SHEETS  
ELASTIC SHELLS

ELASTIC DAMPING  
1809 3203 3301  
UP VISCOELASTIC DAMPING  
BT DAMPING  
ELASTODYNAMICS  
RT ELASTIC PROPERTIES  
RESONANCE TESTING  
VIBRATION DAMPING  
VISCOUS DAMPING

ELASTIC DEFORMATION  
1809 3203  
NT ELASTIC BENDING  
ELASTIC BUCKLING  
BT #DEFORMATION  
RT AXIAL STRAIN  
BENDING  
DEFLECTION  
ELASTIC PROPERTIES  
ELASTODYNAMICS  
ELASTOSTATICS  
PLASTIC DEFORMATION  
PRESTRESSING  
STRETCHING  
STRUCTURAL STRAIN  
TENSILE DEFORMATION

ELASTIC MEDIA  
1809 3203  
BT #MEDIA  
RT ELASTIC BODIES  
ELASTIC SYSTEMS  
#ELASTIC WAVES  
ELASTODYNAMICS  
ELASTOSTATICS

ELASTIC MODULUS  
USE MODULUS OF ELASTICITY

ELASTIC PLATES  
1809 3202  
BT PLATES (STRUCTURAL MEMBERS)  
#STRUCTURAL MEMBERS  
RT ELASTIC BODIES  
ELASTIC SHEETS  
ELASTIC SHELLS

ELASTIC PROPERTIES  
1704 1809 2308 2403 2603 3203 3408  
UP ELASTICITY  
ELASTICITY  
INELASTICITY  
NT AEROELASTICITY  
AEROTHERMOELASTICITY  
ANELASTICITY  
DYNAMIC MODULUS OF ELASTICITY  
ELASTOPLASTICITY  
HYDROELASTICITY  
HYPOELASTICITY  
MAGNETOSTRICTION  
MODULUS OF ELASTICITY  
PHOTOELASTICITY  
PHOTOVISCOELASTICITY  
PROPORTIONAL LIMIT  
THERMOELASTICITY  
THERMOVISCOELASTICITY

## NASA THESAURUS (ALPHABETICAL LISTING)

VISCOELASTICITY

BT #MECHANICAL PROPERTIES  
RT AIRY FUNCTION  
BIHARMONIC EQUATIONS  
COMPRESSIVE STRENGTH  
ELASTIC ANISOTROPY  
ELASTIC BARS  
ELASTIC BENDING  
ELASTIC BODIES  
ELASTIC BUCKLING  
ELASTIC DAMPING  
ELASTIC DEFORMATION  
ELASTODYNAMICS  
ELASTOMETERS  
ELASTOSTATICS  
FLEXIBILITY  
HOOKES LAW  
INFLUENCE COEFFICIENT  
MICROSONICS  
PHYSICAL PROPERTIES  
PIEZOELECTRICITY  
PLASTIC PROPERTIES  
POISSON RATIO  
PROPELLANT PROPERTIES  
RESILIENCE  
SOFTNESS  
STRESS TENSORS  
TENSILE PROPERTIES  
TENSILE STRENGTH  
YIELD STRENGTH

ELASTIC SCATTERING  
2401 2403 2404 2405  
UP ELASTIC COLLISIONS  
BT #SCATTERING  
RT ATOMIC COLLISIONS  
COHERENCE  
COHERENT SCATTERING  
ELECTRON SCATTERING  
GLAUBER THEORY  
NUCLEAR SCATTERING  
PHOTON-ELECTRON INTERACTION  
POMERANCHUK THEOREM

ELASTIC SHEETS  
1809 3202 3203  
RT ELASTIC BODIES  
ELASTIC CYLINDERS  
ELASTIC PLATES  
SHEETS

ELASTIC SHELLS  
1504 1809 3202 3203  
BT #SHELLS (STRUCTURAL FORMS)  
RT ANISOTROPIC SHELLS  
ELASTIC BODIES  
ELASTIC CYLINDERS  
ELASTIC PLATES

ELASTIC STABILITY  
USE DAMPING

ELASTIC STRENGTH  
USE PROPORTIONAL LIMIT

ELASTIC SYSTEMS  
2308 2403 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ELASTIC BODIES  
ELASTIC MEDIA

#ELASTIC WAVES  
1202 1203 2603 3203  
UP EXPANSION WAVES  
LOADING WAVES  
PRESSURE WAVES  
RAREFACTION WAVES  
AERODYNAMIC NOISE  
BT AIRCRAFT NOISE  
BAROCLINIC WAVES  
CAPILLARY WAVES  
COHERENT ACOUSTIC RADIATION  
COMPRESSION WAVES  
DETONATION WAVES  
DILATATIONAL WAVES  
ELECTROSTATIC WAVES  
ENGINE NOISE  
GRAVITY WAVES  
IONIC WAVES  
JET AIRCRAFT NOISE  
LAMB WAVES  
LOVE WAVES  
MACH CONES  
MAGNETOACOUSTIC WAVES  
MAGNETOELASTIC WAVES  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
MAGNETOHYDRODYNAMIC STABILITY

# NASA THESAURUS (ALPHABETICAL LISTING)

# ELECTRIC CHOPPERS

MAGNETOHYDRODYNAMIC WAVES	MICROSEISMS	NOISE (SOUND)	NORMAL SHOCK WAVES	OBLIQUE SHOCK WAVES	P WAVES	PHONON BEAMS	PHONONS	PLASMA WAVES	POLARIZED ELASTIC WAVES	RAYLEIGH WAVES	RIEMANN WAVES	RIPPLES	ROCKET ENGINE NOISE	S WAVES	SEISMIC WAVES	SHOCK WAVES	SONIC BOOMS	SOUND WAVES	STRESS WAVES	THERMAL NOISE	TOLLMEIN-SCHLICHTING WAVES	ULTRASONIC RADIATION	UNLOADING WAVES	ACOUSTIC PROPAGATION	ACOUSTIC SIMULATION	ACOUSTICS	AEOLIAN TONES	BACKGROUND NOISE	BACKWARD WAVES	COHERENT RADIATION	COMBUSTION VIBRATION	CONTINUOUS RADIATION	CYLINDRICAL WAVES	DIFFUSION WAVES	DOPPLER EFFECT	ELASTIC MEDIA	ELASTODYNAMICS	ELASTOHYDRODYNAMICS	LAME WAVE EQUATIONS	LONGITUDINAL WAVES	PLANE WAVES	POLARIZED RADIATION	PULSED RADIATION	RADIATION	RADIATION DISTRIBUTION	RADIATION PRESSURE	RAREFACTION	REFLECTED WAVES	REFRACTED WAVES	SINE WAVES	SOUND TRANSMISSION	SPHERICAL WAVES	STRESS PROPAGATION	SURFACE WAVES	TRANSVERSE WAVES	TRAVELING WAVES	TROPOSPHERIC WAVES	UNDERWATER ACOUSTICS	VIBRATION	WAVE DISPERSION	WAVES	ELASTICITY	USE ELASTIC PROPERTIES	ELASTICIZERS	USE PLASTICIZERS	ELASTIN	0403 1808 1809	BT PROTEINS	ELASTODYNAMICS	1809 3203	NT ELASTIC DAMPING	ELASTOHYDRODYNAMICS	DYNAMICS	ELASTIC BODIES	ELASTIC DEFORMATION	ELASTIC MEDIA	ELASTIC PROPERTIES	ELASTIC WAVES	ELASTOSTATICS	ELASTOHYDRODYNAMICS	1202 1204 1809	BT ELASTODYNAMICS	FLUID DYNAMICS	FLUID MECHANICS	HYDRODYNAMICS	HYDROMECHANICS	BALL BEARINGS	ELASTIC WAVES	FRICTION MEASUREMENT	LUBRICATION	ROTATING CYLINDERS	WATER WAVES	ELASTOMERS	1809 1810	NT CHLOROPRENE RESINS	THIOPLASTICS	VITON RUBBER (TRADEMARK)	BT RUBBER	SYNTHETIC RUBBERS	RT ORGANIC MATERIALS	PLASTICS	POLYMERS	SILICONE RUBBER	SOLITHANES	ELASTOMETERS	1406 1809 3203	BT MEASURING INSTRUMENTS	RT ELASTIC PROPERTIES	EXTENSOMETERS	STRAIN GAGES	ELASTOPLASTICITY	1809 3203	BT ELASTIC PROPERTIES	MECHANICAL PROPERTIES	PLASTIC PROPERTIES	ELASTOSTATICS	3203	RT ELASTIC BODIES	ELASTIC DEFORMATION	ELASTIC MEDIA	ELASTIC PROPERTIES	ELASTODYNAMICS	STATICS	ELBOW (ANATOMY)	0404 1504	BT ANATOMY	APPENDAGES	ARM (ANATOMY)	JOINTS (ANATOMY)	LIMBS (ANATOMY)	MUSCULOSKELETAL SYSTEM	RT HUMERUS	ULNA	ELDO LAUNCH VEHICLE	3103 3409	BT LAUNCH VEHICLES	MULTISTAGE ROCKET VEHICLES	ROCKET VEHICLES	RT BLUE STREAK LAUNCH VEHICLE	EUROPA LAUNCH VEHICLES	EUROPEAN 1 SPACECRAFT	ELECTRA AIRCRAFT	0204	BT COMMERCIAL AIRCRAFT	JET AIRCRAFT	LOCKHEED AIRCRAFT	MONOPLANES	PASSENGER AIRCRAFT	TRANSPORT AIRCRAFT	TURBOPROP AIRCRAFT	ELECTRETS	0904 1504 1801 1805 1809 1810 2305 2602	RT CAPACITORS	CURIE TEMPERATURE	DIELECTRIC POLARIZATION	DIELECTRICS	ELECTRIC ENERGY STORAGE	ELECTRIC FIELDS	ENERGY STORAGE	MAGNETS	POLARIZATION (CHARGE SEPARATION)	ELECTRIC ANALOGIES	USE ANALOGIES	ELECTRIC APPLIANCES	USE ELECTRIC EQUIPMENT	ELECTRIC ARCS	0604 1203 1504 2304 3404	NT CARBON ARCS	MERCURY ARCS	BT ELECTRIC CURRENT	ELECTRIC DISCHARGES	RT ARC CHAMBERS	ARC DISCHARGES	ARC GENERATORS	ARCS	CORONAS	ELECTRIC CORONA	ELECTRIC SPARKS	ELECTRICAL FAULTS	FLASHOVER	GAS DISCHARGES	GLOW DISCHARGES	IONIZATION	LIGHT SOURCES	LIGHTNING	MAGNETOHYDRODYNAMICS	PLANOTRONS	PLASMA GENERATORS	PLASMAS (PHYSICS)	SAHA EQUATIONS	SHORT CIRCUITS	ELECTRIC BATTERIES	0302 0904 0905 3401	(INCLUDES BOTH RECHARGEABLE OR STORAGE	BATTERIES AND NON-RECHARGEABLE	BATTERIES FOR GENERATING CURRENT FROM	A STORED CHEMICAL ENERGY SOURCE)	UF BATTERIES	NT ALKALINE BATTERIES	DRY CELLS	MAGNESIUM CELLS	METAL AIR BATTERIES	NICKEL CADMIUM BATTERIES	NICKEL ZINC BATTERIES	PRIMARY BATTERIES	SILVER CADMIUM BATTERIES	SILVER ZINC BATTERIES	STORAGE BATTERIES	THERMAL BATTERIES	WET CELLS	ZINC-OXYGEN BATTERIES	BT ELECTROCHEMICAL CELLS	RT AUXILIARY POWER SOURCES	BATTERY CHARGERS	CHEMICAL AUXILIARY POWER UNIT	DIRECT POWER GENERATORS	ELECTRIC CELLS	ELECTRIC ENERGY STORAGE	ELECTRIC POWER	ELECTRODES	ELECTROLYTES	ELECTROLYTIC CELLS	ELECTROMOTIVE FORCES	ENERGY SOURCES	ENERGY STORAGE	POWER SUPPLIES	RADIOISOTOPE BATTERIES	SPACECRAFT POWER SUPPLIES	ELECTRIC BRIDGES	0904	NT WHEATSTONE BRIDGES	WIRE BRIDGE CIRCUITS	BT CIRCUITS	RT BRIDGES	CAPACITORS	ELECTRICAL MEASUREMENT	MEASURING INSTRUMENTS	SOLID STATE DEVICES	ELECTRIC CELLS	0302 0303 0604	(USE OF A MORE SPECIFIC TERM IS	RECOMMENDED--CONSULT THE TERMS LISTED	BELOW)	RT AMPLIFIERS	DIRECT POWER GENERATORS	ELECTRIC BATTERIES	ELECTRIC GENERATORS	ELECTROCHEMICAL CELLS	ELECTROLYTIC CELLS	FISSION ELECTRIC CELLS	FUEL CELLS	KERR CELLS	PHOTOELECTRIC CELLS	SOLAR CELLS	WET CELLS	ELECTRIC CHARGE	2304	NT ELECTRIC DIPOLES	ELECTROSTATIC CHARGE	ION CHARGE	ORBITING DIPOLES	SPACE CHARGE	TRAVELING CHARGE	RT CAPACITANCE	CHARGING	DIPOLES	ELECTRICAL PROPERTIES	ELECTROMETERS	POLARITY	POLARIZATION (CHARGE SEPARATION)	ELECTRIC CHOPPERS	0904	(DEVICES FOR CONVERTING DC TO AC)	UF CHOPPERS (ELECTRIC)	VIBRATORS
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## ELECTRIC CIRCUITS

RT #AMPLIFIERS  
MECHANICAL OSCILLATORS  
ELECTRIC CIRCUITS  
USE #CIRCUITS  
#ELECTRIC COILS  
0904  
RT MAGNETIC COILS  
RT CHOKES  
COILS  
IGNITION SYSTEMS  
#IMPEDANCE  
MAGNETIC CORES  
TRANSFORMERS  
ELECTRIC CONDUCTORS  
0604 1703 2302 2304 2305 2602 2603  
UP ELECTRICAL LEADS  
BT #CONDUCTORS  
RT CONDUCTION  
DIELECTRICS  
EDDY CURRENTS  
#ELECTRIC CURRENT  
ELECTRICAL INSULATION  
ELECTRICAL RESISTIVITY  
ELECTROSTATIC SHIELDING  
INSULATORS  
RESISTORS  
SEMICONDUCTORS (MATERIALS)  
SOMMERFELD WAVES  
THERMAL CONDUCTORS  
#TRANSMISSION LINES  
ELECTRIC CONNECTORS  
0303 0602 0904 2304  
UP CONNECTORS (ELECTRIC)  
JACKS (ELECTRICAL)  
BT CONNECTORS  
RT #CIRCUITS  
CONNECTORS  
DISCONNECT DEVICES  
ELECTRIC CONTACTS  
ELECTRIC OUTLETS  
ELECTRIC SWITCHES  
ELECTRIC TERMINALS  
ELECTRIC WIRE  
FLAT CONDUCTORS  
JACKS  
#SWITCHES  
ELECTRIC CONTACTS  
0303 1001 2304 2602 0902 0904  
UP CONTACTS (ELECTRIC)  
RT BRUSHES  
COMMUTATORS  
CONTACT POTENTIALS  
CONTACT RESISTANCE  
DROPOUTS  
ELECTRIC CONNECTORS  
ELECTRIC EQUIPMENT  
ELECTRIC RELAYS  
ELECTRIC SWITCHES  
ELECTRIC TERMINALS  
FLAT CONDUCTORS  
RELAY  
SLIDING CONTACT  
SLIDING FRICTION  
#SWITCHES  
ELECTRIC CONTROL  
0303 0602 2102 2304  
UP ELECTROHYDRAULIC CONTROL  
RT #AUTOMATIC CONTROL  
CONTROL  
CONTROL EQUIPMENT  
ELECTRIC SWITCHES  
ELECTRONIC CONTROL  
ENGINE CONTROL  
NUMERICAL CONTROL  
REMOTE CONTROL  
SOLENOID VALVES  
SOLENOID VALVES  
ELECTRIC CORONA  
0604 0605 0710 1203 2304 2402  
UP CORONA DISCHARGES  
BT CORONAS  
#ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
RT ATMOSPHERIC ELECTRICITY  
ELECTRIC ARCS  
ELECTRIC SPARKS  
ELECTROHYDRODYNAMICS  
GLOW DISCHARGES  
#IONIZATION  
SOLAR CORONA  
STATIC ELECTRICITY

## #ELECTRIC CURRENT

0902 1001 1002 2003 2302 2304 2402  
UP AMPERAGE  
ELECTROSEISMIC EFFECT  
HALL CURRENTS  
PHOTOCURRENTS  
RT ALTERNATING CURRENT  
ARC DISCHARGES  
AURORAL ELECTROJECTS  
BEAM CURRENTS  
BRILLOUIN FLOW  
CARBON ARCS  
DIRECT CURRENT  
EDDY CURRENTS  
ELECTRIC ARCS  
ELECTRIC CORONA  
ELECTRIC DISCHARGES  
ELECTRIC SPARKS  
ELECTRODELESS DISCHARGES  
ELECTROJECTS  
EQUATORIAL ELECTROJET  
FLASHOVER  
GAS DISCHARGES  
GLOW DISCHARGES  
HIGH CURRENT  
IONOSPHERIC CURRENTS  
LIGHTNING  
LINE CURRENT  
LOW CURRENTS  
MERCURY ARCS  
MULTIPLY DISCHARGES  
PENNING DISCHARGE  
RADIO FREQUENCY DISCHARGE  
RING CURRENTS  
RING DISCHARGE  
SAINT ELMO FIRE  
TELLURIC CURRENTS  
THRESHOLD CURRENTS  
TOROIDAL DISCHARGE  
TOWNSEND DISCHARGE  
RT AMMETERS  
#CIRCUITS  
CURRENT DENSITY  
CURRENT REGULATORS  
CURRENT SHEETS  
CURRENTS  
ELECTRIC CONDUCTORS  
ELECTRIC FIELDS  
ELECTRIC POTENTIAL  
ELECTRIC POWER  
#ELECTRICITY  
ELECTROCONDUCTIVITY  
HIGH VOLTAGES  
KIRCHHOFF LAW OF NETWORKS  
LIENARD POTENTIAL  
LOW CONDUCTIVITY  
MICROMILLIAMMETERS  
OHMS LAW  
POWER CONDITIONING  
#TRANSMISSION LINES  
VOLT-AMPERE CHARACTERISTICS  
ELECTRIC DIPOLES  
2304 2402  
RT ORBITING DIPOLES  
BT #ELECTRIC CHARGE  
RT DIPOLES  
ELECTRIC FIELDS  
ELECTRIC MOMENTS  
MAGNETIC DIPOLES  
ELECTRIC DISCHARGES  
0603 0605 1203 1411 2003 2304 2402  
RT ARC DISCHARGES  
CARBON ARCS  
ELECTRIC ARCS  
ELECTRIC CORONA  
ELECTRIC SPARKS  
ELECTRODELESS DISCHARGES  
FLASHOVER  
GAS DISCHARGES  
GLOW DISCHARGES  
LIGHTNING  
MERCURY ARCS  
MULTIPLY DISCHARGES  
PENNING DISCHARGE  
RADIO FREQUENCY DISCHARGE  
SAINT ELMO FIRE  
TOROIDAL DISCHARGE  
TOWNSEND DISCHARGE  
BT #ELECTRIC CURRENT  
RT AVALANCHES  
CORONAS  
DISCHARGE

## NASA THESAURUS (ALPHABETICAL LISTING)

DUOPLASMATRONS  
ELECTRON EMISSION  
ELECTROSTATIC CHARGE  
FLASH  
#IONIZATION  
MOLNITA SATELLITES  
SPACE CHARGE  
VON ARDENNE DUOPLASMATRONS  
ZENER EFFECT  
ELECTRIC ENERGY STORAGE  
0303 0904 2304  
BT ENERGY STORAGE  
RT CAPACITORS  
DIRECT POWER GENERATORS  
ELECTRETS  
ELECTRIC BATTERIES  
INDUCTORS  
#POTENTIAL ENERGY  
ELECTRIC EQUIPMENT  
0302 0303 0904  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP ELECTRIC APPLIANCES  
RT AIRBORNE EQUIPMENT  
#CIRCUITS  
CURRENT REGULATORS  
ELECTRIC CONTACTS  
#ELECTRIC GENERATORS  
ELECTRIC POWER TRANSMISSION  
#ELECTRICITY  
ELECTROMECHANICAL DEVICES  
#ELECTRONIC EQUIPMENT  
#HEATING EQUIPMENT  
#LIGHTING EQUIPMENT  
LOGISTICS  
MINIATURE ELECTRONIC EQUIPMENT  
#MOTORS  
SOLENOID VALVES  
SOLENOID VALVES  
UTILITIES  
WELDING MACHINES  
ELECTRIC EQUIPMENT TESTS  
1108 1505  
(CHECKOUT OF ELECTRICAL EQUIPMENT)  
RT ELECTRICAL MEASUREMENT  
ELECTRONIC EQUIPMENT TESTS  
#GROUND TESTS  
TESTS  
ELECTRIC FIELD STRENGTH  
2304 2402  
BT FIELD STRENGTH  
RT COULOMB POTENTIAL  
ELECTRIC FIELDS  
ELECTRIC POTENTIAL  
FORCE  
H WAVES  
ELECTRIC FIELDS  
2304 2402  
UP ELECTROSTATIC FIELDS  
TELLURIC FIELDS  
RT CONSTITUTIVE EQUATIONS  
COULOMB POTENTIAL  
CROSSED FIELDS  
DIELECTRIC POLARIZATION  
ELECTRETS  
#ELECTRIC CURRENT  
ELECTRIC DIPOLES  
ELECTRIC FIELD STRENGTH  
ELECTRIC POTENTIAL  
ELECTRODYNAMICS  
ELECTROMAGNETISM  
ELECTROMECHANICS  
ELECTROSTATIC CHARGE  
ELECTROSTATICS  
FIELD EMISSION  
FIELD STRENGTH  
FIELDS  
LIENARD POTENTIAL  
#MAGNETIC FIELDS  
PERMITTIVITY  
POLARITY  
SPARK GAPS  
STARK EFFECT  
STATIC ELECTRICITY  
#ELECTRIC FILTERS  
0905  
NT BANDPASS FILTERS  
DIGITAL FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
INFRARED FILTERS  
LINEAR FILTERS



# NASA THESAURUS (ALPHABETICAL LISTING)

LOW PASS FILTERS  
 MICROWAVE FILTERS  
 OPTICAL FILTERS  
 RADAR FILTERS  
 RADIO FILTERS  
 TRACKING FILTERS  
 ULTRAVIOLET FILTERS  
 WAVEGUIDE FILTERS  
 RT ADAPTIVE FILTERS  
 BANDPASS FILTERS  
 CAPACITORS  
 #CIRCUITS  
 ELECTROMAGNETIC WAVE FILTERS  
 ELECTRONIC FILTERS  
 FILTERS  
 HIGH PASS FILTERS  
 LINEAR FILTERS  
 LOW PASS FILTERS  
 MICROWAVE FILTERS  
 NONLINEAR FILTERS  
 RC CIRCUITS  
 RECEIVERS  
 RESISTORS  
 TRANSFORMERS  
 ELECTRIC FUSES  
 0902 0904  
 RT CIRCUIT PROTECTION  
 DISCONNECT DEVICES  
 FUSES  
 #ELECTRIC GENERATORS  
 0302 0303 0905  
 UF ELECTRIC POWER CONVERSION  
 ELECTROGENERATORS  
 POWER CONVERSION  
 POWER GENERATORS  
 NT AC GENERATORS  
 ALKALINE BATTERIES  
 AMPLIDYNES  
 ASTEC SOLAR TURBOELECTRIC GENERATOR  
 BIOCHEMICAL FUEL CELLS  
 DIRECT POWER GENERATORS  
 DRY CELLS  
 DYNAMOMETERS  
 ELECTROSTATIC GENERATORS  
 FUEL CELLS  
 HYDROGEN OXYGEN FUEL CELLS  
 MAGNESIUM CELLS  
 MAGNETOHYDRODYNAMIC GENERATORS  
 METAL AIR BATTERIES  
 NICKEL ZINC BATTERIES  
 PHOTOELECTRIC GENERATORS  
 PRIMARY BATTERIES  
 RADIOISOTOPE BATTERIES  
 REGENERATIVE FUEL CELLS  
 ROTATING GENERATORS  
 SNAP 9A  
 SNAP 10A  
 SNAP 3  
 SNAP 7  
 SNAP 11  
 SNAP 13  
 SNAP 15  
 SNAP 17  
 SNAP 19  
 SNAP 21  
 SNAP 23  
 SNAP 27  
 SNAP 29  
 SOLAR AUXILIARY POWER UNITS  
 SOLAR CELLS  
 SOLAR GENERATORS  
 STATIC ALTERNATORS  
 SUNFLOWER POWER SYSTEM  
 SUNFLOWER 1  
 THERMAL BATTERIES  
 THERMIONIC CONVERTERS  
 THERMOELECTRIC GENERATORS  
 TURBOGENERATORS  
 ZINC-OXYGEN BATTERIES  
 RT ARC GENERATORS  
 ARMATURES  
 #AUXILIARY POWER SOURCES  
 CLOSED CYCLES  
 CONVERSION  
 CONVERTERS  
 ELECTRIC CELLS  
 ELECTRIC EQUIPMENT  
 ELECTRIC MOTORS  
 ELECTRIC POWER  
 #ELECTRIC POWER PLANTS  
 ELECTRICAL ENGINEERING  
 ELECTROMOTIVE FORCES

ENERGY SOURCES  
 GENERATORS  
 #NUCLEAR ELECTRIC POWER GENERATION  
 POWER  
 POWER CONDITIONING  
 POWER SUPPLIES  
 SNAP  
 STATIC INVERTERS  
 THERMONUCLEAR POWER GENERATION  
 ELECTRIC IGNITION  
 0303 0904 2304  
 BT IGNITION  
 RT #IGNITERS  
 IGNITION SYSTEMS  
 SPARK IGNITION  
 SQUIBS  
 STARTING  
 ELECTRIC IMPULSES  
 USE ELECTRIC PULSES  
 ELECTRIC LEADS  
 USE ELECTRIC WIRE  
 ELECTRIC MOMENTS  
 2304 2311  
 UF NUCLEAR-ELECTRIC MOMENTS  
 BT DIPOLE MOMENTS  
 #ELECTRICAL PROPERTIES  
 #MOMENTS  
 RT ELECTRIC DIPOLES  
 MAGNETIC MOMENTS  
 POLARIZATION (CHARGE SEPARATION)  
 ELECTRIC MOTORS  
 0301 0303 0904 1504 2304 3404  
 NT MICROMOTORS  
 SYNCHRONOUS MOTORS  
 TORQUE MOTORS  
 BT #MOTORS  
 RT AMPLIDYNES  
 ARMATURES  
 #CIRCUITS  
 COMMUTATORS  
 DECOMMUTATORS  
 #ELECTRIC GENERATORS  
 ELECTRIC POWER  
 #ELECTRIC POWER PLANTS  
 ROTATING ELECTRICAL MACHINES  
 SERVOMECHANISMS  
 SERVOMOTORS  
 STATORS  
 TRANSFORMERS  
 ELECTRIC NETWORKS  
 0303 0702 0902 2304 2402  
 RT IMPEDANCE MATCHING  
 NETWORKS  
 ELECTRIC OUTLETS  
 0904  
 UF SOCKETS  
 BT ELECTRIC CONNECTORS  
 ELECTRIC POTENTIAL  
 2304  
 UF VOLTAGE  
 NT BIOELECTRIC POTENTIAL  
 CONTACT POTENTIALS  
 COULOMB POTENTIAL  
 LIENARD POTENTIAL  
 LOW VOLTAGE  
 PHOTOVOLTAGES  
 SPIKE POTENTIALS  
 BT #POTENTIAL ENERGY  
 RT BIAS  
 #ELECTRIC CURRENT  
 ELECTRIC FIELD STRENGTH  
 ELECTRIC FIELDS  
 ELECTROMOTIVE FORCES  
 GIBBS-HELMHOLTZ EQUATIONS  
 IONIZATION POTENTIALS  
 KIRCHHOFF LAW OF NETWORKS  
 OVERVOLTAGE  
 POTENTIAL  
 POTENTIOMETERS (INSTRUMENTS)  
 POWER CONDITIONING  
 STATIC ELECTRICITY  
 VOLT-AMPERE CHARACTERISTICS  
 ELECTRIC POWER  
 0301 0303 1504 2304 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UF ELECTRICAL ENERGY  
 RT #AUXILIARY POWER SOURCES  
 ELECTRIC BATTERIES  
 #ELECTRIC CURRENT  
 #ELECTRIC GENERATORS

## ELECTRIC RELAYS

ELECTRIC MOTORS  
 #ELECTRIC POWER PLANTS  
 ELECTRIC PROPULSION  
 #ELECTRICAL PROPERTIES  
 #ELECTRICITY  
 ELECTRIFICATION  
 POINTING THEOREM  
 TURBOGENERATORS  
 ELECTRIC POWER CONVERSION  
 USE #ELECTRIC GENERATORS  
 #ELECTRIC POWER PLANTS  
 0904 2304  
 NT ENRICO FERMI ATOMIC POWER PLANT  
 HALLAM NUCLEAR POWER FACILITY  
 HL-1 NUCLEAR POWER PLANT  
 NUCLEAR POWER PLANTS  
 RT #ELECTRIC GENERATORS  
 ELECTRIC MOTORS  
 ELECTRIC POWER  
 ELECTRICAL ENGINEERING  
 FACILITIES  
 POWER PLANTS  
 ELECTRIC POWER TRANSMISSION  
 0902 0904 2304  
 BT #TRANSMISSION  
 RT CIRCUIT PROTECTION  
 #CIRCUITS  
 CONDUCTION  
 ELECTRIC EQUIPMENT  
 ELECTRICAL ENGINEERING  
 ELECTRIFICATION  
 NETWORKS  
 POLES (SUPPORTS)  
 POWER LINES  
 POWER TRANSMISSION  
 TRANSMISSION CIRCUITS  
 #TRANSMISSION LINES  
 TRANSMISSION LOSS  
 ELECTRIC PROPULSION  
 0301 2304 2803 3404  
 (EXCLUDES PROPULSION USING ELECTRIC  
 MOTORS AS PRIME MOVERS)  
 NT ELECTROMAGNETIC PROPULSION  
 ELECTROSTATIC PROPULSION  
 ION PROPULSION  
 PLASMA PROPULSION  
 BT #PROPULSION  
 RT ELECTRIC POWER  
 ELECTRIC ROCKET ENGINES  
 LOW THRUST PROPULSION  
 MARINE PROPULSION  
 NUCLEAR ELECTRIC PROPULSION  
 #PLASMA POWER SOURCES  
 SERT 1 SPACECRAFT  
 SERT 2 SPACECRAFT  
 SPACECRAFT PROPULSION  
 TWO STAGE PLASMA ENGINES  
 UNDERWATER PROPULSION  
 ELECTRIC PULSES  
 0902 2304 2402 2403  
 UF ELECTRIC IMPULSES  
 BT #PULSES  
 RT ELECTRIC STIMULI  
 ELECTROMAGNETIC PULSES  
 PULSE AMPLITUDE  
 PULSE DURATION  
 PULSE GENERATORS  
 PULSE MODULATION  
 PULSE RATE  
 ELECTRIC REACTORS  
 0904  
 RT CAPACITORS  
 CIRCUIT PROTECTION  
 REACTORS  
 RESISTORS  
 TRANSFORMERS  
 ELECTRIC RELAYS  
 0904  
 (EXCLUDES COMMUNICATION SYSTEM  
 REPEATERS)  
 BT #SWITCHES  
 RT ARMATURES  
 CIRCUIT BREAKERS  
 DISCONNECT DEVICES  
 ELECTRIC CONTACTS  
 INTERRUPTION  
 RELAY  
 SELECTORS  
 SOLENOID VALVES  
 SOLENOID VALVES  
 SOLENOIDS  
 SWITCHING CIRCUITS

## ELECTRIC ROCKET ENGINES

TIME LAG  
ELECTRIC ROCKET ENGINES  
2803  
NT ELECTROSTATIC ENGINES  
XT-761 ENGINE  
BT #ENGINES  
ROCKET ENGINES  
RT ELECTRIC PROPULSION  
MICROROCKET ENGINES  
PULSED JET ENGINES  
RESTARTABLE ROCKET ENGINES  
SERT 1 SPACECRAFT  
SERT 2 SPACECRAFT  
SPACE ELECTRIC ROCKET TESTS  
SUSTAINER ROCKET ENGINES  
VERNIER ENGINES

ELECTRIC SPARKS  
2304  
UP SPARK DISCHARGES  
BT #ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
SPARKS  
RT ELECTRIC ARCS  
ELECTRIC CORONA  
FLASHOVER  
GAS DISCHARGES  
#IONIZATION  
LIGHTNING  
SPARK CHAMBERS  
SPARK GAPS  
SPARK IGNITION  
SPARK PLUGS  
STATIC ELECTRICITY

ELECTRIC STIMULI  
0404 0408 2304 3404  
RT ELECTRIC PULSES  
PHYSIOLOGY  
STIMULI

ELECTRIC STRAIN GAGES  
USE STRAIN GAGES

ELECTRIC SWITCHES  
0904  
NT CRYOTRONS  
THERMOSTATS  
BT #SWITCHES  
RT CONTACTORS  
CRYOSTATS  
CURRENT REGULATORS  
ELECTRIC CONNECTORS  
ELECTRIC CONTACTS  
ELECTRIC CONTROL  
ELECTRONIC CONTROL  
PRESSURE SWITCHES  
SOLENOID VALVES  
SOLENOID VALVES  
SWITCHING CIRCUITS  
VOLTAGE REGULATORS

ELECTRIC TERMINALS  
0902 0904 2304  
RT ELECTRIC CONNECTORS  
ELECTRIC CONTACTS  
ELECTRIC WIRE  
TERMINALS

ELECTRIC WELDING  
1507 1704 3404  
NT ARC WELDING  
ELECTRON BEAM WELDING  
ELECTROSLAG WELDING  
GAS TUNGSTEN ARC WELDING  
PLASMA ARC WELDING  
BT #WELDING  
RT FLASH WELDING  
FUSION WELDING  
PRESSURE WELDING  
SPOT WELDS  
WELDING MACHINES

ELECTRIC WIRE  
0303 0902 0904 1504 3404  
UP ELECTRIC LEADS  
ELECTRIC WIRING  
NT EXPLODING WIRES  
BT #CONDUCTORS  
#WIRE  
RT BUS CONDUCTORS  
#CIRCUITS  
COMMUNICATION CABLES  
ELECTRIC CONNECTORS  
ELECTRIC TERMINALS  
ELECTRICAL INSULATION  
FLAT CONDUCTORS  
POWER LINES  
#TRANSMISSION LINES

WIRE BRIDGE CIRCUITS  
ELECTRIC WIRING  
USE ELECTRIC WIRE  
WIRING  
ELECTRICAL BREAKDOWN  
USE ELECTRICAL FAULTS  
ELECTRICAL CONDUCTIVITY  
USE ELECTRICAL RESISTIVITY  
ELECTRICAL CONDUCTIVITY METERS  
0904  
BT CONDUCTIVITY METERS  
#MEASURING INSTRUMENTS  
RT OHMMETERS  
ELECTRICAL ENERGY  
USE ELECTRIC POWER  
ELECTRICAL ENGINEERING  
3404 3406  
RT #ELECTRIC GENERATORS  
#ELECTRIC POWER PLANTS  
ELECTRIC POWER TRANSMISSION  
ELECTRONICS  
POWER TRANSMISSION  
SYSTEMS ENGINEERING  
#TRANSMISSION LINES  
TURBOGENERATORS

ELECTRICAL FAULTS  
0604 0902 1002 2304 2402  
UP ELECTRICAL BREAKDOWN  
VOLTAGE BREAKDOWN  
RT BREAKDOWN  
CIRCUIT PROTECTION  
ELECTRIC ARCS  
ELECTRICAL INSULATION  
FAILURE  
FAULTS  
FLASHOVER  
SPARK GAPS

ELECTRICAL GROUNDING  
0902 1001 2304  
RT CIRCUIT PROTECTION  
#CIRCUITS  
NOISE REDUCTION  
TRANSFORMERS

ELECTRICAL IMPEDANCE  
1001 2304  
UP ADMITTANCE  
IMMITTANCE  
NT CONTACT RESISTANCE  
ELECTRICAL RESISTANCE  
LC CIRCUITS  
REACTANCE  
SKIN RESISTANCE  
BT #ELECTRICAL PROPERTIES  
#IMPEDANCE  
RT CAPACITANCE  
ELECTRICAL RESISTIVITY  
IMPEDANCE MATCHING  
IMPEDANCE MEASUREMENTS  
INDUCTANCE  
OHMMETERS  
SMITH CHART

ELECTRICAL INSULATION  
0902 0904 1001 2302 2304 2602  
UP NONCONDUCTORS  
BT INSULATION  
RT ASBESTOS  
CIRCUIT PROTECTION  
DIELECTRICS  
ELECTRIC CONDUCTORS  
ELECTRIC WIRE  
ELECTRICAL FAULTS  
#ELECTRICAL PROPERTIES  
EXCITONS  
INSULATED STRUCTURES  
INSULATORS  
WIRING

ELECTRICAL LEADS  
USE ELECTRIC CONDUCTORS  
ELECTRICAL MEASUREMENT  
0401 0904 2304  
(MEASUREMENT OF ELECTRICAL PROPERTIES,  
QUANTITIES, OR CONDITIONS)  
UP VOLTAGE MEASUREMENT  
NT COULOMETRY  
POLAROGRAPHY  
RT AMMETERS  
BOLOMETERS  
COULOMETERS  
COULOMETRY  
ELECTRIC BRIDGES  
ELECTRIC EQUIPMENT TESTS  
#ELECTRICAL PROPERTIES

## NASA THESAURUS (ALPHABETICAL LISTING)

ELECTROMAGNETIC MEASUREMENT  
ELECTROMETERS  
ELECTRONIC EQUIPMENT TESTS  
FLOWMETERS  
IMPEDANCE MEASUREMENTS  
MAGNETOMETERS  
MEASUREMENT  
#MEASURING INSTRUMENTS  
MICRONILLIAMMETERS  
OHMMETERS  
OSCILLOGRAPHS  
POTENTIOMETERS (INSTRUMENTS)  
WATTMETERS

#ELECTRICAL PROPERTIES  
0604 2302 2304 2402 2602 3408  
UP BARDEEN APPROXIMATION  
NT ANTIFERROELECTRICITY

CAPACITANCE  
CARRIER MOBILITY  
CHARGE DISTRIBUTION  
CONTACT RESISTANCE  
DIELECTRIC PROPERTIES  
ELECTRIC MOMENTS  
ELECTRICAL IMPEDANCE  
ELECTRICAL RESISTANCE  
ELECTRICAL RESISTIVITY  
ELECTRON MOBILITY  
ELECTROSTRICTION  
FERROELECTRICITY  
HOLE MOBILITY  
INDUCTANCE  
IONOSPHERIC CONDUCTIVITY  
LC CIRCUITS  
MAGNETORESISTIVITY  
PERMITTIVITY  
PHOTOCONDUCTIVITY  
PHOTOVOLTALIC EFFECT  
PIEZOELECTRICITY  
PLASMA CONDUCTIVITY  
POLARIZATION CHARACTERISTICS  
PYROELECTRICITY  
REACTANCE  
SKIN RESISTANCE  
SUPERCONDUCTIVITY  
CONDUCTIVITY  
CRYSTAL OSCILLATORS  
DIAMAGNETISM  
DIPOLE MOMENTS  
DOMAINS  
EDDY CURRENTS  
#ELECTRIC CHARGE  
ELECTRIC POWER  
ELECTRICAL INSULATION  
ELECTRICAL MEASUREMENT

#ELECTRICITY  
FIELD STRENGTH  
HYSTERESIS  
#IMPEDANCE  
#MAGNETIC PROPERTIES  
OPTICAL PROPERTIES  
PHOTOELECTRIC EMISSION  
PHYSICAL PROPERTIES  
PROPERTIES  
QUALITY CONTROL  
RESISTANCE  
SOLID STATE PHYSICS  
STANDING WAVE RATIOS

ELECTRICAL RESISTANCE  
1001 2302 2304 3408  
NT CONTACT RESISTANCE  
LC CIRCUITS  
SKIN RESISTANCE  
BT ELECTRICAL IMPEDANCE  
#ELECTRICAL PROPERTIES  
#IMPEDANCE  
RT HIGH RESISTANCE  
LINEAR CIRCUITS  
LOW RESISTANCE  
MANGANIN (TRADEMARK)  
OHMMETERS  
OHMS LAW  
RC CIRCUITS  
REACTANCE  
RESISTANCE  
RL CIRCUITS  
RLC CIRCUITS

ELECTRICAL RESISTIVITY  
2304  
UP ELECTRICAL CONDUCTIVITY  
RESISTIVITY  
NT IONOSPHERIC CONDUCTIVITY  
MAGNETORESISTIVITY

# NASA THESAURUS (ALPHABETICAL LISTING)

PHOTOCONDUCTIVITY  
 PLASMA CONDUCTIVITY  
 SUPERCONDUCTIVITY  
 BT #ELECTRICAL PROPERTIES  
 #TRANSPORT PROPERTIES  
 RT AIR CONDUCTIVITY  
 ATMOSPHERIC CONDUCTIVITY  
 CARRIER MOBILITY  
 CONDUCTIVITY  
 ELECTRIC CONDUCTORS  
 ELECTRICAL IMPEDANCE  
 ELECTROCONDUCTIVITY  
 ELECTROMIGRATION  
 LOW CONDUCTIVITY  
 RESISTANCE  
 ELECTRICALLY SUSPENDED GYROSCOPES  
 USE ELECTROSTATIC GYROSCOPES  
 #ELECTRICITY  
 2304  
 NT ALTERNATING CURRENT  
 ATMOSPHERIC ELECTRICITY  
 AURORAL ELECTROJETS  
 ELECTROJETS  
 EQUATORIAL ELECTROJET  
 GEOELECTRICITY  
 IONOSPHERIC CURRENTS  
 STATIC ELECTRICITY  
 TELLURIC CURRENTS  
 RT #ELECTRIC CURRENT  
 ELECTRIC EQUIPMENT  
 ELECTRIC POWER  
 #ELECTRICAL PROPERTIES  
 ELECTROMAGNETISM  
 ELECTRONICS  
 LIGHTNING  
 MAXWELL EQUATION  
 OHMS LAW  
 PHOTOELECTRICITY  
 PIEZOELECTRICITY  
 ELECTRIFICATION  
 2304 2403 3407  
 RT ELECTRIC POWER  
 ELECTRIC POWER TRANSMISSION  
 POWER TRANSMISSION  
 #TRANSMISSION LINES  
 ELECTRO-OPTICAL EFFECT  
 2310  
 RT KERR EFFECTS  
 LIGHT MODULATION  
 ELECTRO-OPTICAL PHOTOGRAPHY  
 2310  
 UF ELECTRONIC PHOTOGRAPHY  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT ASTRONOMICAL PHOTOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 LALLEMAND CAMERAS  
 #OPTICAL MEASUREMENT  
 ELECTRO-OPTICS  
 2304 2306 2310 2402  
 BT #ELECTROPHYSICS  
 RT BIREFRINGENCE  
 ELECTROLUMINESCENCE  
 ELECTRON OPTICS  
 #ELECTROPHYSICS  
 KERR ELECTROOPTICAL EFFECT  
 MAGNETO-OPTICS  
 OPTICS  
 STARK EFFECT  
 ELECTROACOUSTIC TRANSDUCERS  
 2301 2304 2402  
 NT HYDROPHONES  
 LOUDSPEAKERS  
 MICROPHONES  
 BT SOUND TRANSDUCERS  
 #TRANSDUCERS  
 RT ELECTROACOUSTIC WAVES  
 ELECTROACOUSTIC WAVES  
 2301 2304 2402  
 RT ELECTROACOUSTIC TRANSDUCERS  
 #ELECTROMAGNETIC RADIATION  
 PLASMA WAVES  
 PRESSURE SENSORS  
 WAVE INTERACTION  
 WAVES  
 ELECTROANESTHESIA  
 0405 0408  
 BT ANESTHESIA  
 RT ELECTRONARCOSIS  
 ELECTROCARDIOGRAMS  
 USE ELECTROCARDIOGRAPHY

ELECTROCARDIOGRAPHY  
 0401 0405 0501  
 UF ELECTROCARDIOGRAMS  
 BT #BIOENGINEERING  
 BIOMETRICS  
 CARDIOGRAPHY  
 RT BALLISTOCARDIOGRAPHY  
 BODY MEASUREMENT (BIOLOGY)  
 ELECTROPHYSIOLOGY  
 HEART DISEASES  
 MEDICAL ELECTRONICS  
 MUSCLES  
 PHONOCARDIOGRAPHY  
 VECTORCARDIOGRAPHY  
 ELECTROCATALYSTS  
 0302  
 UF FUEL CELL CATALYSTS  
 BT CATALYSTS  
 RT FUEL CELLS  
 #ELECTROCHEMICAL CELLS  
 0302 0604  
 NT ALKALINE BATTERIES  
 BIOCHEMICAL FUEL CELLS  
 DRY CELLS  
 ELECTRIC BATTERIES  
 FUEL CELLS  
 HYDROGEN OXYGEN FUEL CELLS  
 MAGNESIUM CELLS  
 METAL AIR BATTERIES  
 NICKEL CADMIUM BATTERIES  
 NICKEL ZINC BATTERIES  
 PRIMARY BATTERIES  
 REGENERATIVE FUEL CELLS  
 SILVER CADMIUM BATTERIES  
 SILVER ZINC BATTERIES  
 STORAGE BATTERIES  
 THERMAL BATTERIES  
 WET CELLS  
 ZINC-OXYGEN BATTERIES  
 RT CELLS  
 ELECTRIC CELLS  
 #ELECTROCHEMISTRY  
 PHOTOELECTRIC CELLS  
 PHOTOVOLTAIC CELLS  
 ELECTROCHEMICAL CORROSION  
 0604 1702  
 BT CORROSION  
 RT ELECTROCHEMICAL OXIDATION  
 ELECTRODISSOLUTION  
 ELECTROLYSIS  
 METAL-WATER REACTIONS  
 ELECTROCHEMICAL MACHINING  
 0604 1504 1704  
 UF ELECTROLYTIC GRINDING  
 BT CHEMICAL MACHINING  
 #MACHINING  
 RT ELECTROPOLISHING  
 ELECTROCHEMICAL OXIDATION  
 0602 0604  
 BT #CHEMICAL REACTIONS  
 OXIDATION  
 RT ELECTROCHEMICAL CORROSION  
 #ELECTROCHEMISTRY  
 0603 0604 2304  
 NT COULOMETRY  
 ELECTROLYSIS  
 RT CHEMISTRY  
 CORROSION  
 COULOMETERS  
 #ELECTROCHEMICAL CELLS  
 ELECTRODEPOSITION  
 #ELECTRODES  
 ELECTROLYTES  
 ELECTROLYTIC CELLS  
 #ELECTROPHYSICS  
 FUEL CELLS  
 GLASS ELECTRODES  
 ELECTROCONDUCTIVITY  
 2302 2304  
 NT LOW CONDUCTIVITY  
 RT #ELECTRIC CURRENT  
 ELECTRICAL RESISTIVITY  
 ELECTROCONTINUOUS COMMUNICATION  
 0702  
 BT #COMMUNICATING  
 ELECTRODE FILM BARRIERS  
 0604 0904 1504 1702 1802 2502  
 RT BARRIERS  
 #ELECTRODES  
 FILMS  
 POLARIZATION (CHARGE SEPARATION)  
 THIN FILMS

## ELECTRODYNAMOMETERS

ELECTRODELESS DISCHARGES  
 0604 2304 2502  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT DISCHARGE  
 GAS DISCHARGES  
 GLOW DISCHARGES  
 LIGHTNING  
 PENNING DISCHARGE  
 RADIO FREQUENCY DISCHARGE  
 RING DISCHARGE  
 TOROIDAL DISCHARGE  
 TOWNSEND DISCHARGE  
 ELECTRODEPOSITION  
 0604 1704  
 NT ELECTROPLATING  
 BT #DEPOSITION  
 RT CELL CATHODES  
 COULOMETERS  
 #ELECTROCHEMISTRY  
 ELECTROFORMING  
 ELECTROLYSIS  
 ELECTROLYTES  
 ELECTROLYTIC CELLS  
 ELECTROPHORESIS  
 ELECTROWINNING  
 METAL MATRIX COMPOSITES  
 METAL POWDER  
 PLATING  
 POWDER METALLURGY  
 REDUCTION (CHEMISTRY)  
 ELECTRODERMAL RESPONSE  
 USE GALVANIC SKIN RESPONSE  
 #ELECTRODES  
 0604 0904 0905 0906 1504 2304  
 NT ANODES  
 CATHODES  
 CELL ANODES  
 CELL CATHODES  
 COLD CATHODE TUBES  
 COLD CATHODES  
 DIFFUSION ELECTRODES  
 DYNODES  
 FREQUENCY MODULATION  
 PHOTOMULTIPLIERS  
 GLASS ELECTRODES  
 HOLLOW CATHODES  
 HOT CATHODES  
 ION SELECTIVE ELECTRODES  
 PHOTOCATHODES  
 PHOTOMULTIPLIER TUBES  
 PHOTOTUBES  
 PLASMA ELECTRODES  
 THERMIONIC CATHODES  
 TUBE ANODES  
 TUBE CATHODES  
 TUBE GRIDS  
 TUNNEL CATHODES  
 RT ELECTRIC BATTERIES  
 #ELECTROCHEMISTRY  
 ELECTRODE FILM BARRIERS  
 ELECTROLYSIS  
 ELECTROPLATING  
 ELECTROREFINING  
 ELECTROWINNING  
 GRAPHITE  
 TAFEL LAW  
 ELECTRODIALYSIS  
 0602 0604  
 BT DIALYSIS  
 RT COLLOIDS  
 HYDROMETALLURGY  
 SEPARATION  
 ELECTRODISSOLUTION  
 0602 0603 0604 2304  
 RT ELECTROCHEMICAL CORROSION  
 ELECTRODYNAMICS  
 1002 2304 2307  
 NT ELECTROHYDRODYNAMICS  
 ELECTROMECHANICS  
 QUANTUM ELECTRODYNAMICS  
 BORN-INFLUENCE THEORY  
 DYNAMICS  
 ELECTRIC FIELDS  
 ELECTROMAGNETIC INTERACTIONS  
 ELECTROMECHANICAL DEVICES  
 LINE CURRENT  
 MAXWELL EQUATION  
 PONDEROMOTIVE FORCES  
 TRAVELING CHARGE  
 ELECTRODYNAMOMETERS  
 USE DYNAMOMETERS

## ELECTROENCEPHALOGRAPH

## ELECTROENCEPHALOGRAPH

USE ELECTROENCEPHALOGRAPHY  
ELECTROENCEPHALOGRAPHY

0405 0501

UP EEG (ELECTROENCEPHALOGRAMS)

ELECTROENCEPHALOGRAPH

BT #BIOENGINEERING

BIOMETRICS

RT AROUSAL

BALLISTOCARDIOGRAPHY

BODY MEASUREMENT (BIOLOGY)

BRAIN

ELECTROPHYSIOLOGY

MEDICAL ELECTRONICS

#MEDICAL EQUIPMENT

## ELECTROEROSION

USE SPARK MACHINING

## ELECTROEXPLOSIVE DEVICES

USE INITIATORS (EXPLOSIVES)

## ELECTROFORMING

0604 1507 1704

BT #FORMING TECHNIQUES

RT #DEPOSITION

ELECTRODEPOSITION

ELECTROPLATING

SPARK MACHINING

## ELECTROGENERATORS

USE #ELECTRIC GENERATORS

## ELECTROHYDRAULIC CONTROL

USE ELECTRIC CONTROL

HYDRAULIC CONTROL

## ELECTROHYDRAULIC FORMING

0303 1507 1704

BT COLD WORKING

#FORMING TECHNIQUES

RT EXPLOSIVE FORMING

#METAL WORKING

## ELECTROHYDRODYNAMICS

1202 2304

BT ELECTRODYNAMICS

FLUID DYNAMICS

#FLUID MECHANICS

HYDRODYNAMICS

HYDROMECHANICS

RT ELECTRIC CORONA

ELECTROKINETICS

ELECTRON GAS

ELECTRON MOBILITY

ION DISTRIBUTION

IONIC MOBILITY

MAGNETOHYDRODYNAMICS

## ELECTROJETS

1302 1307 1308 2002 2304

NT AURORAL ELECTROJETS

EQUATORIAL ELECTROJET

BT ATMOSPHERIC ELECTRICITY

#ELECTRIC CURRENT

#ELECTRICITY

IONOSPHERIC CURRENTS

RT GEOMAGNETISM

IONOSPHERE

IONOSPHERIC CONDUCTIVITY

IONOSPHERIC DRIFT

RING CURRENTS

## ELECTROKINETICS

2304 2307 2308 2403

BT KINETICS

ELECTROHYDRODYNAMICS

ELECTROMAGNETIC FIELDS

ELECTROMECHANICS

#ELECTROPHYSICS

## ELECTROLUMINESCENCE

0605 1203 2304 2306 2402

UP ELECTROLUMINESCENT LAMPS

BT #DECAY

EMISSION

LIGHT EMISSION

LUMINESCENCE

RT ELECTRO-OPTICS

LIGHT SOURCES

## ELECTROLUMINESCENT LAMPS

USE ELECTROLUMINESCENCE

LUMINAIRES

## ELECTROLYSIS

0602 0604

NT COULOMETRY

BT #ELECTROCHEMISTRY

RT CORROSION

COULOMETERS

CURRENT DENSITY

DECOMPOSITION

ELECTROCHEMICAL CORROSION

## ELECTRODEPOSITION

#ELECTRODES

ELECTROLYTES

ELECTROLYTIC CELLS

ELECTROPLATING

IONIC MOBILITY

METATHESIS

PASSIVITY

PHOTOLYSIS

REDUCTION (CHEMISTRY)

TAPEL LAW

## ELECTROLYTE METABOLISM

0404 0408

BT #METABOLISM

## ELECTROLYTES

0604 1703 1802 1807 2304

NT ANOLYTES

CATHOLYTES

ION EXCHANGE MEMBRANE ELECTROLYTES

MOLTEN SALT ELECTROLYTES

BT #CONDUCTORS

RT CONDUCTING FLUIDS

DEBYE-HUCKEL THEORY

ELECTRIC BATTERIES

#ELECTROCHEMISTRY

ELECTRODEPOSITION

ELECTROLYSIS

ELECTROLYTIC CELLS

ELECTROPLATING

ELECTROREFINING

ELECTROWINNING

FUEL CELLS

#IONS

NONELECTROLYTES

PRIMARY BATTERIES

STORAGE BATTERIES

WET CELLS

## ELECTROLYTIC CELLS

0604 2304

UP GALVANIC CELLS

RT CELLS

DIAPHRAGMS

DIAPHRAGMS (MECHANICS)

DIFFUSION ELECTRODES

ELECTRIC BATTERIES

ELECTRIC CELLS

#ELECTROCHEMISTRY

ELECTRODEPOSITION

ELECTROLYSIS

ELECTROLYTES

ELECTROPLATING

ELECTROREFINING

ELECTROWINNING

IONIC MOBILITY

ELECTROLYTIC GRINDING

USE ELECTROCHEMICAL MACHINING

## ELECTROLYTIC POLARIZATION

0602 0604 2304

BT POLARIZATION (CHARGE SEPARATION)

RT DEPOLARIZATION

MAGNESIUM CELLS

## ELECTROLYTIC POLISHING

USE ELECTROPOLISHING

## ELECTROMAGNETIC ABSORPTION

1203 1411 2306 2402

UP IONOSPHERIC ABSORPTION

LIGHT ABSORPTION

MAGNETIC ABSORPTION

OPTICAL ABSORPTION

PHOTON ABSORPTION

RADIO SIGNAL ABSORPTION

NT AURORAL ABSORPTION

MOLECULAR ABSORPTION

PHOTOABSORPTION

POLAR CAP ABSORPTION

ULTRAVIOLET ABSORPTION

X RAY ABSORPTION

BT #ENERGY ABSORPTION

#RADIATION ABSORPTION

ABSORBERS (MATERIALS)

ABSORPTANCE

ABSORPTION

ABSORPTION SPECTRA

ABSORPTIVITY

ACTIVATION

ATMOSPHERIC ATTENUATION

#ATTENUATION

BEER LAW

BOUGUER LAW

CHANDRASEKHAR EQUATION

ELECTROMAGNETIC FIELDS

#ELECTROMAGNETIC RADIATION

## NASA THESAURUS (ALPHABETICAL LISTING)

## ELECTROMAGNETIC WAVE TRANSMISSION

#EXCITATION

#FADING

FLUORESCENCE

#IRRADIATION

LIGHT SCATTERING

MANDELSTAM REPRESENTATION

MOSSBAUER EFFECT

#NUCLEAR PHYSICS

OPACITY

OPTICAL PROPERTIES

OPTICAL REFLECTION

PAIR PRODUCTION

PHOTODECOMPOSITION

PHOTODISSOCIATION

PHOTOPRODUCTION

RADAR ABSORBERS

RADAR ATTENUATION

RADIATION SHIELDING

RADIO ATTENUATION

REFLECTION

RESONANT FREQUENCIES

SIGNAL FADING

SOLAR ENERGY ABSORBERS

TOWNSEND AVALANCHE

#TRANSMISSION

TRANSMITTANCE

TRANSPARENCY

WAVE ATTENUATION

WAVE PROPAGATION

## ELECTROMAGNETIC COMPATIBILITY

0303 0904 0905 2402

RT ATMOSPHERICS

CROSSTALK

#ELECTROMAGNETIC INTERFERENCE

ELECTROMAGNETIC NOISE

ELECTRONIC COUNTERMEASURES

INTERFERENCE

NOISE SPECTRA

RADIO FREQUENCY INTERFERENCE

## ELECTROMAGNETIC CONTROL

USE ELECTROMAGNETS

REMOTE CONTROL

## ELECTROMAGNETIC DEDUCTION

USE MAGNETIC INDUCTION

## ELECTROMAGNETIC FIELDS

1406 2304 2307 2402 2403

NT FAR FIELDS

RT ABRISKOSOV THEORY

BLACKOUT (PROPAGATION)

ELECTROKINETICS

ELECTROMAGNETIC ABSORPTION

ELECTROMAGNETIC MEASUREMENT

#ELECTROMAGNETIC RADIATION

ELECTROMAGNETISM

ELECTROMECHANICS

FIELD STRENGTH

FIELD THEORY (PHYSICS)

#MAGNETIC FIELDS

QUANTUM ELECTRODYNAMICS

SOLAR MAGNETIC FIELDS

SONNENFELD APPROXIMATION

STELLAR MAGNETIC FIELDS

WHISTLERS

## ELECTROMAGNETIC HANNERS

1504 1704

BT HANNERS

RT #FORMING TECHNIQUES

MAGNETIC COILS

MAGNETIC FORMING

#METAL WORKING

## ELECTROMAGNETIC INTERACTIONS

0705 2306 2402 2403

NT PLASMA-ELECTROMAGNETIC INTERACTION

RT ELECTRODYNAMICS

ELECTROSTATICS

#ELEMENTARY PARTICLE INTERACTIONS

FEYNMAN DIAGRAMS

INTERACTIONS

PLASMA INTERACTIONS

PLASMA-PARTICLE INTERACTIONS

PLASMA RESONANCE

QUANTUM MECHANICS

WAVE INTERACTION

## #ELECTROMAGNETIC INTERFERENCE

1003

NT ATMOSPHERICS

BLACKOUT (PROPAGATION)

COSMIC NOISE

CROSSTALK

DAWN CHORUS

ELECTROMAGNETIC NOISE

# NASA THESAURUS (ALPHABETICAL LISTING)

# #ELECTROMAGNETIC RADIATION

HISS  
 IONOSPHERIC CROSS MODULATION  
 IONOSPHERIC NOISE  
 IONOSPHERICS  
 JAMMING  
 POLAR RADIO BLACKOUT  
 RADIO FREQUENCY INTERFERENCE  
 SHOT NOISE  
 SUDDEN ENHANCEMENT OF ATMOSPHERICS  
 THERMAL NOISE  
 WHISTLERS  
 WHITE NOISE  
 RT DISTURBANCES  
 ELECTROMAGNETIC COMPATIBILITY  
 ELECTRONIC COUNTERMEASURES  
 #ENVIRONMENTS  
 #FEEDBACK  
 INTERFERENCE  
 NOISE REDUCTION  
 SIGNAL TO NOISE RATIOS  
 ELECTROMAGNETIC MEASUREMENT  
 0705 1404 1406 2402  
 (MEASUREMENT OF ELECTROMAGNETIC  
 PROPERTIES, QUANTITIES OR CONDITIONS)  
 RT BARKHAUSEN EFFECT  
 ELECTRICAL MEASUREMENT  
 ELECTROMAGNETIC FIELDS  
 #ELECTROMAGNETIC RADIATION  
 ELECTROMAGNETISM  
 INFRARED DETECTORS  
 MAGNETIC MEASUREMENT  
 MEASUREMENT  
 ELECTROMAGNETIC NOISE  
 0704 2402  
 UP IMPULSE NOISE  
 RADIATION NOISE  
 RADIO FREQUENCY NOISE  
 SYNCHROTRON NOISE  
 NT ATMOSPHERICS  
 COSMIC NOISE  
 DAWN CHORUS  
 HISS  
 IONOSPHERIC NOISE  
 IONOSPHERICS  
 SHOT NOISE  
 SUDDEN ENHANCEMENT OF ATMOSPHERICS  
 WHISTLERS  
 WHITE NOISE  
 BT BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 RADIO FREQUENCY INTERFERENCE  
 RT BACKGROUND NOISE  
 BACKGROUND RADIATION  
 CHIRP SIGNALS  
 ELECTROMAGNETIC COMPATIBILITY  
 #ELECTROMAGNETIC RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 MICROWAVES  
 MILLIMETER WAVES  
 NOISE  
 NOISE INTENSITY  
 NOISE REDUCTION  
 NOISE SPECTRA  
 NOISE STORMS  
 NOISE TEMPERATURE  
 RADAR RECEIVERS  
 RADIO RECEIVERS  
 RADIO SPECTRA  
 RADIO WAVES  
 RANDOM NOISE  
 SIGNAL TO NOISE RATIOS  
 SOLAR RADIO EMISSION  
 SQUELCH CIRCUITS  
 SUBMILLIMETER WAVES  
 WHITE NOISE  
 ELECTROMAGNETIC PROPAGATION  
 USE ELECTROMAGNETIC WAVE TRANSMISSION  
 ELECTROMAGNETIC PROPERTIES  
 2310  
 RT ABSORPTANCE  
 ABSORPTIVITY  
 BIREFRINGENCE  
 BRIGHTNESS  
 CLARITY  
 COLOR  
 DICHOISM  
 FARADAY EFFECT  
 IRIDESCENCE  
 KERR MAGNETOOPTICAL EFFECT  
 LUMINOSITY  
 OPACITY  
 OPTICAL PROPERTIES  
 OPTICAL REFLECTION  
 PHOSPHORESCENCE  
 PHOTOCONDUCTIVITY  
 PHOTOELASTICITY  
 PHOTOELECTRIC EFFECT  
 PHOTOELECTRIC EMISSION  
 PHOTOIONIZATION  
 PHOTOVISCOELASTICITY  
 PHOTOVOLTAIC EFFECT  
 PHYSICAL PROPERTIES  
 RADIANCE  
 REFLECTANCE  
 REFRACTIVITY  
 SKY BRIGHTNESS  
 SPECTRAL REFLECTANCE  
 STELLAR LUMINOSITY  
 TRANSLUCENCE  
 TRANSMISSIVITY  
 TRANSMITTANCE  
 TRANSPARENCE  
 TURBIDITY  
 ELECTROMAGNETIC PROPULSION  
 2402 2803 2808  
 BT ELECTRIC PROPULSION  
 LOW THRUST PROPULSION  
 #PROPULSION  
 SPACECRAFT PROPULSION  
 RT ELECTROSTATIC PROPULSION  
 ION PROPULSION  
 PHOTONIC PROPULSION  
 PLASMA PROPULSION  
 ELECTROMAGNETIC PULSES  
 2304  
 BT #ELECTROMAGNETIC RADIATION  
 PULSED RADIATION  
 #PULSES  
 RT ELECTRIC PULSES  
 ELECTROMAGNETIC PULSES  
 PULSE COMMUNICATION  
 PULSE MODULATION  
 PULSE RADAR  
 RADAR TRANSMISSION  
 ELECTROMAGNETIC PUMPS  
 1501 2402 3404  
 (ENCOMPASSES DEVICES FOR MATERIALS  
 HANDLING ONLY--EXCLUDES OPTICAL AND  
 PARTICLE ENERGIZING DEVICES)  
 BT #PUMPS  
 RT FUEL PUMPS  
 #ELECTROMAGNETIC RADIATION  
 2304 2306 2402 2403 2901 2902 2903  
 UP ELECTROMAGNETIC WAVES  
 WAVE RADIATION  
 NT AIRGLOW  
 BLACK BODY RADIATION  
 BREMSSTRAHLUNG  
 CERENKOV RADIATION  
 COHERENT ELECTROMAGNETIC RADIATION  
 COHERENT LIGHT  
 CYCLOTRON RADIATION  
 DAYGLOW  
 DECAHETRIC WAVES  
 DECIMETER WAVES  
 ELECTROMAGNETIC PULSES  
 EXTRATERRESTRIAL RADIO WAVES  
 FAR INFRARED RADIATION  
 FAR ULTRAVIOLET RADIATION  
 GALACTIC RADIO WAVES  
 GAMMA RAY BEAMS  
 GAMMA RAYS  
 GEGENSCHN  
 GEOCORONAL EMISSIONS  
 H WAVES  
 INFRARED RADIATION  
 LIGHT (VISIBLE RADIATION)  
 LIGHT BEAMS  
 LONG WAVE RADIATION  
 LYMAN ALPHA RADIATION  
 LYMAN BETA RADIATION  
 MICROWAVES  
 MILLIMETER WAVES  
 MODULATED CONTINUOUS RADIATION  
 MONOCHROMATIC RADIATION  
 NEAR INFRARED RADIATION  
 NEAR ULTRAVIOLET RADIATION  
 NIGHTGLOW  
 NONEQUILIBRIUM RADIATION  
 PHONON BEAMS  
 PHOTON BEAMS  
 PLANETARY RADIATION  
 POLARIZED ELECTROMAGNETIC RADIATION  
 POLARIZED LIGHT  
 RADIO EMISSION  
 RADIO WAVES  
 SHORT WAVE RADIATION  
 SKY RADIATION  
 SKY WAVES  
 SOLAR RADIO BURSTS  
 SOLAR RADIO EMISSION  
 SOLAR X-RAYS  
 SOMMERFELD WAVES  
 SUBMILLIMETER WAVES  
 SUNLIGHT  
 SYNCHROTRON RADIATION  
 TERRESTRIAL RADIATION  
 THERMAL RADIATION  
 TROPOSPHERIC RADIATION  
 TWILIGHT GLOW  
 TYPE 2 BURSTS  
 TYPE 3 BURSTS  
 TYPE 4 BURSTS  
 TYPE 5 BURSTS  
 ULTRAVIOLET RADIATION  
 X RAYS  
 ZODIACAL LIGHT  
 RT AEROSPACE ENVIRONMENTS  
 ANTENNAS  
 #ATMOSPHERIC RADIATION  
 ATMOSPHERIC REFRACTION  
 BACKWARD WAVES  
 #BEAMS (RADIATION)  
 #COHERENT RADIATION  
 CONTINUOUS RADIATION  
 CORPUSCULAR RADIATION  
 COSMIC RAYS  
 CYLINDRICAL WAVES  
 DIFFRACTION  
 DOPPLER EFFECT  
 DUCHROMATORS  
 ELECTROACOUSTIC WAVES  
 ELECTROMAGNETIC ABSORPTION  
 ELECTROMAGNETIC FIELDS  
 ELECTROMAGNETIC MEASUREMENT  
 ELECTROMAGNETIC NOISE  
 ELECTROMAGNETIC SCATTERING  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 ELECTROMAGNETISM  
 #EXTRATERRESTRIAL RADIATION  
 FAR FIELDS  
 FLUX (RATE)  
 FLUX DENSITY  
 GALACTIC RADIATION  
 GAUGE INVARIANCE  
 GLARE  
 HARMONIC RADIATION  
 INCIDENT RADIATION  
 INCOHERENT SCATTERING  
 INTERSTELLAR RADIATION  
 #IONIZING RADIATION  
 KERR ELECTROOPTICAL EFFECT  
 LIGHT EMISSION  
 MAGNETO-OPTICS  
 NUCLEAR RADIATION  
 PHASE VELOCITY  
 PLANCKS CONSTANT  
 #POLARIZED RADIATION  
 POYNTING THEOREM  
 PROPAGATION  
 PROPAGATION VELOCITY  
 PULSED RADIATION  
 #RADAR  
 RADIATION  
 RADIATION DISTRIBUTION  
 RADIATION HAZARDS  
 RADIATION LAWS  
 RADIATION PRESSURE  
 RADIATION SOURCES  
 RADIATIVE TRANSPER  
 RAYS  
 REFLECTED WAVES  
 REFLECTION  
 REFRACTED WAVES  
 #SCATTERING  
 SINE WAVES  
 SOLAR RADIATION  
 SPECTRAL EMISSION  
 SPECTRAL ENERGY DISTRIBUTION  
 SPHERICAL WAVES  
 SPONTANEOUS EMISSION  
 STEFAN-BOLTZMANN LAW  
 STELLAR RADIATION  
 STRATOSPHERE RADIATION  
 #TELECOMMUNICATION  
 THOMSON SCATTERING

## ELECTROMAGNETIC SCATTERING

#TRANSMISSION  
 TRANSVERSE WAVES  
 TRAVELING WAVES  
 VLF EMISSION RECORDERS  
 WAVE DISPERSION  
 WAVE GENERATION  
 WAVES  
 ELECTROMAGNETIC SCATTERING  
 2306 2310 2402 2403  
 NT IONOSPHERIC F-SCATTER PROPAGATION  
 LIGHT SCATTERING  
 MICROWAVE SCATTERING  
 MIE SCATTERING  
 RAMAN SPECTRA  
 RAYLEIGH SCATTERING  
 THOMSON SCATTERING  
 X RAY SCATTERING  
 BT #SCATTERING  
 WAVE SCATTERING  
 RT ATMOSPHERIC ATTENUATION  
 ATMOSPHERIC SCATTERING  
 #ELECTROMAGNETIC RADIATION  
 MAGNETIC DISPERSION  
 ELECTROMAGNETIC SHIELDING  
 0508 1504 2402 3404  
 NT RADIO FREQUENCY SHIELDING  
 BT #SHIELDING  
 RT MAGNETIC SHIELDING  
 RADIATION SHIELDING  
 ELECTROMAGNETIC SHOCK TUBES  
 USE SHOCK TUBES  
 ELECTROMAGNETIC SPECTRA  
 2402  
 NT BALMER SERIES  
 D LINES  
 ELECTRONIC SPECTRA  
 FRAUNHOFER LINES  
 H ALPHA LINE  
 H BETA LINE  
 H GAMMA LINE  
 H LINES  
 INFRARED SPECTRA  
 K LINES  
 LINE SPECTRA  
 LYMAN SPECTRA  
 MICROWAVE SPECTRA  
 PASCHEN SERIES  
 RADIO SPECTRA  
 RAMAN SPECTRA  
 RYDBERG SERIES  
 SOLAR SPECTRA  
 STELLAR SPECTRA  
 TELLURIC LINES  
 UV SPECTRA  
 ULTRAVIOLET SPECTRA  
 VIBRATIONAL SPECTRA  
 RADIATION SPECTRA  
 BT #SPECTRA  
 RT ABSORPTION SPECTRA  
 ASTRONOMICAL SPECTROSCOPY  
 EMISSION SPECTRA  
 ENERGY SPECTRA  
 LIGHT (VISIBLE RADIATION)  
 MOLECULAR SPECTRA  
 NOISE SPECTRA  
 SPECTRAL RECONNAISSANCE  
 ELECTROMAGNETIC WAVE FILTERS  
 0905 2402  
 NT INFRARED FILTERS  
 MICROWAVE FILTERS  
 OPTICAL FILTERS  
 RADAR FILTERS  
 ULTRAVIOLET FILTERS  
 WAVEGUIDE FILTERS  
 BT #ELECTRIC FILTERS  
 RT ABSORBERS (MATERIALS)  
 ADAPTIVE FILTERS  
 #ATTENUATORS  
 BANDPASS FILTERS  
 CORRELATION DETECTION  
 DIGITAL FILTERS  
 #ELECTRIC FILTERS  
 FILTERS  
 HIGH PASS FILTERS  
 LINEAR FILTERS  
 LOW PASS FILTERS  
 NONLINEAR FILTERS  
 SCREEN EFFECT  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 0705 0710 2306 2402  
 UP ELECTROMAGNETIC PROPAGATION  
 NT DOUBLE SIDEBAND TRANSMISSION

IONOSPHERIC F-SCATTER PROPAGATION  
 IONOSPHERIC PROPAGATION  
 LIGHT SCATTERING  
 LIGHT TRANSMISSION  
 MICROWAVE TRANSMISSION  
 MULTIPATH TRANSMISSION  
 RADAR TRANSMISSION  
 RADIO TRANSMISSION  
 SCATTER PROPAGATION  
 SHORT WAVE RADIO TRANSMISSION  
 SINGLE SIDEBAND TRANSMISSION  
 TELEVISION TRANSMISSION  
 TRANSEQUATORIAL PROPAGATION  
 BT #TRANSMISSION  
 RT ATMOSPHERIC ATTENUATION  
 #ATTENUATION  
 ELECTROMAGNETIC ABSORPTION  
 #ELECTROMAGNETIC RADIATION  
 PERMAT PRINCIPLE  
 INCOHERENT SCATTERING  
 MAGNETOIONICS  
 PLASMA DECAY  
 PLASMA GUIDES  
 RADOME MATERIALS  
 SCREEN EFFECT  
 TRANSMISSION EFFICIENCY  
 WAVE PROPAGATION  
 ELECTROMAGNETIC WAVES  
 USE #ELECTROMAGNETIC RADIATION  
 ELECTROMAGNETICS  
 USE ELECTROMAGNETISM  
 ELECTROMAGNETISM  
 2304 2307 2402  
 UP ELECTROMAGNETICS  
 NT MAGNETOSTATICS  
 RT BARKHAUSEN EFFECT  
 ELECTRIC FIELDS  
 #ELECTRICITY  
 ELECTROMAGNETIC FIELDS  
 ELECTROMAGNETIC MEASUREMENT  
 #ELECTROMAGNETIC RADIATION  
 ELECTROMAGNETS  
 #ELECTROPHYSICS  
 MAGNET COILS  
 MAGNETIC COILS  
 #MAGNETIC FIELDS  
 #MAGNETIC PROPERTIES  
 MAGNETORESISTIVITY  
 ELECTROMAGNETS  
 2304 2307  
 UP ELECTROMAGNETIC CONTROL  
 NT HIGH FIELD MAGNETS  
 SUPERCONDUCTING MAGNETS  
 BT #MAGNETS  
 RT ELECTROMAGNETISM  
 FIELD COILS  
 MAGNET COILS  
 RACETRACKS (PARTICLE ACCELERATORS)  
 SOLENOIDS  
 ELECTROMECHANICAL DEVICES  
 0301 1504 3404  
 RT ELECTRIC EQUIPMENT  
 ELECTRODYNAMICS  
 ELECTROMECHANICS  
 EQUIPMENT  
 ELECTROMECHANICS  
 0301 1504 3404  
 BT ELECTRODYNAMICS  
 RT #CIRCUITS  
 ELECTRIC FIELDS  
 ELECTROKINETICS  
 ELECTROMAGNETIC FIELDS  
 ELECTROMECHANICAL DEVICES  
 ELECTROSTATICS  
 #MAGNETIC FIELDS  
 MAXWELL EQUATION  
 MECHANICS (PHYSICS)  
 ELECTROMETERS  
 0905 1406  
 BT #MEASURING INSTRUMENTS  
 RT #ELECTRIC CHARGE  
 ELECTRICAL MEASUREMENT  
 ELECTRON COUNTERS  
 GALVANOMETERS  
 POTENTIOMETERS (INSTRUMENTS)  
 VOLTMETERS  
 ELECTROMIGRATION  
 0906 2304 2602 3407  
 RT ELECTRICAL RESISTIVITY  
 ELECTRON MOBILITY  
 HOLE-MOBILITY  
 IONIC MOBILITY

## NASA THESAURUS (ALPHABETICAL LISTING)

POLARIZATION (CHARGE SEPARATION)  
 ELECTROMOTIVE FORCES  
 2304  
 NT PONDEROMOTIVE FORCES  
 RT ELECTRIC BATTERIES  
 #ELECTRIC GENERATORS  
 ELECTRIC POTENTIAL  
 OHMS LAW  
 ELECTROMYOGRAMS  
 USE ELECTROMYOGRAPHY  
 ELECTROMYOGRAPHS  
 USE ELECTROMYOGRAPHY  
 ELECTROMYOGRAPHY  
 0405 0501  
 UP ELECTROMYOGRAMS  
 ELECTROMYOGRAPHS  
 BT #BIOENGINEERING  
 BIOMETRICS  
 RT ELECTROPHYSIOLOGY  
 MEDICAL ELECTRONICS  
 ELECTRON ACCELERATORS  
 2403 2405 3404  
 NT BETATONS  
 BT #PARTICLE ACCELERATORS  
 RT ACCELERATORS  
 ELECTRON BEAMS  
 LINEAR ACCELERATORS  
 SYNCHROTRONS  
 VAN DE GRAAFF ACCELERATORS  
 ELECTRON ATTACHMENT  
 2304 2401 2404 2502 2603  
 NT NUCLEOPHILES  
 RT ELECTRON CAPTURE  
 ELECTRON IRRADIATION  
 GAS IONIZATION  
 #IONIZATION  
 ELECTRON AVALANCHE  
 1002 1203 2401 2403  
 BT AVALANCHES  
 RT FREE ELECTRONS  
 GAS DISCHARGES  
 TOWNSEND AVALANCHE  
 ELECTRON BEAM WELDING  
 1507 1704  
 BT ELECTRIC WELDING  
 FUSION WELDING  
 #WELDING  
 RT ARC WELDING  
 SPIKING  
 ELECTRON BEAMS  
 2401 2403 2502 2803  
 BT #BEAMS (RADIATION)  
 CORPUSCULAR RADIATION  
 ELECTRON RADIATION  
 PARTICLE BEAMS  
 #PARTICLES  
 RT BEAM PLASMA AMPLIFIERS  
 BETA PARTICLES  
 BRILLOUIN FLOW  
 ELECTRON ACCELERATORS  
 ELECTRON BOMBARDMENT  
 ELECTRON BUNCHING  
 ELECTRON GUNS  
 ELECTRON IMPACT  
 ELECTRON IRRADIATION  
 ELECTRON OPTICS  
 ELECTRON PHOTOGRAPHY  
 ELECTRON PLASMA  
 ELECTRON PROBES  
 ELECTRON TRAJECTORIES  
 #ELECTRON TUBES  
 #IONIZING RADIATION  
 MAGNETIC LENSES  
 MONOSCOPES  
 PLASMA JETS  
 SCALLOPING  
 ELECTRON BOMBARDMENT  
 1002 1504 2402 2403 3404  
 RT #DEPOSITION  
 ELECTRON BEAMS  
 ELECTRON IMPACT  
 ELECTRON IRRADIATION  
 ELECTRON PLASMA  
 ELECTRON RADIATION  
 ELECTRON TRAJECTORIES  
 PARTICLE BEAMS  
 PLASMA JETS  
 SPUTTERING  
 ELECTRON BUNCHING  
 1002 2402 2403  
 BT BUNCHING  
 RT CATCHERS

# NASA THESAURUS (ALPHABETICAL LISTING)

CONVECTION CURRENTS  
ELECTRON BEAMS  
ELECTRON CLOUDS  
#ELECTRON TUBES  
KLYSTRONS  
TRAVELING WAVE TUBES  
VELOCITY MODULATION  
ELECTRON CAPTURE  
0603 2401 2403 2405  
BT #ELEMENTARY PARTICLE INTERACTIONS  
NUCLEAR CAPTURE  
NUCLEAR INTERACTIONS  
#NUCLEAR REACTIONS  
#PARTICLE INTERACTIONS  
#SPIN  
SPIN-ORBIT INTERACTIONS  
RT CAPTURE EFFECT  
ELECTRON ATTACHMENT  
ELECTRON SCATTERING  
ELECTRON CLOUDS  
2401 2403  
BT #CLOUDS  
RT ELECTRON BUNCHING  
ORBITRONS  
SPACE CHARGE  
ELECTRON COLLISIONS  
USE ELECTRON SCATTERING  
ELECTRON COUNTERS  
1406 2402  
UF ELECTRON DETECTORS  
BT COUNTERS  
#MEASURING INSTRUMENTS  
RADIATION COUNTERS  
ELECTROMETERS  
RT ELECTRON FLUX DENSITY  
IONIZATION CHAMBERS  
ELECTRON DECAY RATE  
2402 2403  
BT DECAY RATES  
#RATES (PER TIME)  
RT ELECTRON PLASMA  
ELECTRON TRANSITIONS  
NUOMS  
SECONDARY COSMIC RAYS  
ELECTRON DENSITY (CONCENTRATION)  
1302 2402 2403  
NT ELECTRON DENSITY PROFILES  
IONOSPHERIC ELECTRON DENSITY  
MAGNETOSPHERIC ELECTRON DENSITY  
BT #DENSITY (NUMBER/VOLUME)  
PARTICLE DENSITY (CONCENTRATION)  
RT ATMOSPHERIC COMPOSITION  
ATMOSPHERIC DENSITY  
ATOM CONCENTRATION  
ELECTRON DISTRIBUTION  
ELECTRON ENERGY  
FREE ELECTRONS  
ION DENSITY (CONCENTRATION)  
PLASMA DENSITY  
PLASMA FREQUENCIES  
RADIATION BELTS  
SEMICONDUCTORS (MATERIALS)  
SPACE DENSITY  
ELECTRON DENSITY PROFILES  
0802 1408 2003 2402 2403  
BT #DENSITY (NUMBER/VOLUME)  
#DISTRIBUTION (PROPERTY)  
ELECTRON DENSITY (CONCENTRATION)  
ELECTRON DISTRIBUTION  
#GRADIENTS  
PARTICLE DENSITY (CONCENTRATION)  
RT ANGULAR DISTRIBUTION  
ATMOSPHERIC ELECTRICITY  
ATMOSPHERIC IONIZATION  
ELECTRON DETECTORS  
USE ELECTRON COUNTERS  
ELECTRON DIFFRACTION  
2402 2403  
BT DIFFRACTION  
RT BRAGG ANGLE  
ELECTRON MICROSCOPES  
ELECTRON OPTICS  
ELECTRON SCATTERING  
ELECTRON TRAJECTORIES  
X RAY DIFFRACTION  
ELECTRON DIFFUSION  
2402 2403  
BT #DIFFUSION  
PARTICLE DIFFUSION  
RT AMBIPOLAR DIFFUSION  
DIFFUSION WAVES  
ELECTRON TRAJECTORIES

ELECTRON TRANSFER  
GASEOUS SELF-DIFFUSION  
IONIC DIFFUSION  
PLASMA DIFFUSION  
THERMAL DIFFUSION  
ELECTRON DISTRIBUTION  
2401 2403 2404 2405  
NT ELECTRON DENSITY PROFILES  
BT #DENSITY (NUMBER/VOLUME)  
#DISTRIBUTION (PROPERTY)  
PARTICLE DENSITY (CONCENTRATION)  
RT CHARGE DISTRIBUTION  
CURRENT DISTRIBUTION  
#DENSITY (NUMBER/VOLUME)  
ELECTRON DENSITY (CONCENTRATION)  
THOMAS-FERMI MODEL  
VERTICAL DISTRIBUTION  
ELECTRON EMISSION  
0604 0902 0905 1001 2304 2402  
NT FIELD EMISSION  
PHOTOELECTRIC EMISSION  
SECONDARY EMISSION  
BT #DECAY  
EMISSION  
PARTICLE EMISSION  
CATHODES  
RT ELECTRIC DISCHARGES  
ELECTRON SOURCES  
ELECTRON TRANSITIONS  
#ELECTRON TUBES  
EMITTERS  
PAIR PRODUCTION  
PHOTOELECTRIC MATERIALS  
PHOTOELECTRONS  
PHOTOIONIZATION  
PHOTOVOLTAIC EFFECT  
RADIO FREQUENCY DISCHARGE  
SELF SUSTAINED EMISSION  
STIMULATED EMISSION  
THERMAL EMISSION  
THERMIONIC EMISSION  
WORK FUNCTIONS  
ELECTRON ENERGY  
0604 2304 2311 2402 2403  
UF ELECTRON TEMPERATURE  
ELECTRONIC LEVELS  
NT ELECTRON STATES  
BT #PARTICLE ENERGY  
RT ACTIVATION ENERGY  
ELECTRON DENSITY (CONCENTRATION)  
ELECTRON MASS  
ELECTRON PRECIPITATION  
ELECTRON PRESSURE  
ELECTROSTATIC PROBES  
ENERGY  
FORBIDDEN BANDS  
INTERFACIAL ENERGY  
IONOSPHERIC TEMPERATURE  
KINETIC ENERGY  
NOISE TEMPERATURE  
#PLASMAS (PHYSICS)  
PROTON ENERGY  
SPACE TEMPERATURE  
SURFACE ENERGY  
#TEMPERATURE  
ELECTRON FLUX  
USE ELECTRONS  
FLUX (RATE)  
ELECTRON FLUX DENSITY  
2401 2403  
(ELECTRON EMISSION OR DETECTION RATE  
PER UNIT AREA)  
UF ELECTRON INTENSITY  
BT FLUX DENSITY  
PARTICLE FLUX DENSITY  
RADIANT FLUX DENSITY  
#RATES (PER TIME)  
RT ELECTRON COUNTERS  
ELECTRON PRESSURE  
ELECTRON RADIATION  
IRRADIANCE  
RADIANCY  
SOLAR FLUX DENSITY  
ELECTRON GAS  
0604 1704 2403  
RT COSMIC GASES  
ELECTROHYDRODYNAMICS  
ELECTRON PLASMA  
FREE ELECTRONS  
IONIZED GASES  
PLASMONS  
RAREFIED GASES

## ELECTRON OPTICS

SCREEN EFFECT  
SUPERCONDUCTORS  
ELECTRON GUNS  
0710 0905 1504 2403 3404  
RT CATHODE RAY TUBES  
CROSSED FIELD GUNS  
ELECTRON BEAMS  
ELECTRON TRAJECTORIES  
FLYING SPOT SCANNERS  
GUNS  
MAGNETIC LENSES  
#PARTICLE ACCELERATORS  
PLASMA GUNS  
TUBE ANODES  
TUBE CATHODES  
TUBE GRIDS  
ELECTRON IMPACT  
2403 3201  
BT IMPACT  
RT ELECTRON BEAMS  
ELECTRON BOMBARDMENT  
ELECTRON TRAJECTORIES  
ION IMPACT  
POINT IMPACT  
PHOTON IMPACT  
ELECTRON INTENSITY  
USE ELECTRON FLUX DENSITY  
ELECTRON INTERACTIONS  
USE ELECTRON SCATTERING  
ELECTRON-ION RECOMBINATION  
0604 2401 2403 2502 2603  
NT RADIATIVE RECOMBINATION  
BT #RECOMBINATION REACTIONS  
RT ELECTRON RECOMBINATION  
ION RECOMBINATION  
PLASMA CONTROL  
ELECTRON IONIZATION  
USE #IONIZATION  
ELECTRON IRRADIATION  
1002 1504 2402 2403 3404  
BT #IRRADIATION  
RT AURORAL IRRADIATION  
ELECTRON ATTACHMENT  
ELECTRON BEAMS  
ELECTRON BOMBARDMENT  
ELECTRON PRESSURE  
ELECTRON RADIATION  
ION IRRADIATION  
SECONDARY EMISSION  
ELECTRON MASS  
2402 2403  
BT #MASS  
PARTICLE MASS  
RT ELECTRON ENERGY  
ELECTRONS  
ELECTRON MICROSCOPES  
0501 1406 2310 2403 3404  
UF ELECTRON MICROSCOPY  
BT MICROSCOPES  
RT ELECTRON DIFFRACTION  
ELECTRON OPTICS  
ELECTRON PHOTOGRAPHY  
FIELD EMISSION  
ION MICROSCOPES  
MAGNETIC LENSES  
MICROANALYSIS  
OPTICAL MICROSCOPES  
PHOTOMICROGRAPHY  
REPLICAS  
ELECTRON MICROSCOPY  
USE ELECTRON MICROSCOPES  
ELECTRON MOBILITY  
0604 2302 2403 2603  
BT CARRIER MOBILITY  
#ELECTRICAL PROPERTIES  
MOBILITY  
#TRANSPORT PROPERTIES  
RT AMBIPOLAR DIFFUSION  
ATOMIC MOBILITIES  
CHARGE CARRIERS  
ELECTROHYDRODYNAMICS  
ELECTRON MIGRATION  
ELECTRON PRECIPITATION  
HOLE MOBILITY  
MAJORITY CARRIERS  
MINORITY CARRIERS  
SOLID STATE PHYSICS  
ELECTRON MULTIPLIERS  
USE PHOTOMULTIPLIER TUBES  
ELECTRON OPTICS  
2307 2310 2402 2403  
RT BEAM SWITCHING

## ELECTRON ORBITALS

BRILLOUIN FLOW  
CATHODE RAY TUBES  
ELECTRO-OPTICS  
ELECTRON BEAMS  
ELECTRON DIFFRACTION  
ELECTRON MICROSCOPES  
ELECTRON OSCILLATIONS  
ELECTRON PHOTOGRAPHY  
FLYING SPOT SCANNERS  
OPTICS  
PARTICLE TRAJECTORIES  
STEERING  
ELECTRON ORBITALS  
2401 2403 2404  
BT ORBITALS  
RT ELECTRON TRAJECTORIES  
ELECTRON OSCILLATIONS  
2402 2403  
BT #OSCILLATIONS  
RT ELECTRON OPTICS  
ELECTRON TRANSFER  
ELECTRON TRANSITIONS  
PLASMA OSCILLATIONS  
TRANSIENT OSCILLATIONS  
ELECTRON PARAMAGNETIC RESONANCE  
1411 2310 2402 2403 2602  
UF ELECTRON SPIN RESONANCE  
BT MAGNETIC RESONANCE  
PARAMAGNETIC RESONANCE  
#RESONANCE  
ELECTRON PATHS  
USE ELECTRON TRAJECTORIES  
ELECTRON PHONON INTERACTIONS  
0604 2402 2403  
RT #PARTICLE INTERACTIONS  
PLASMA-PARTICLE INTERACTIONS  
POLARONS  
SUPERCONDUCTIVITY  
THERMODYNAMIC COUPLING  
ELECTRON PHOTOGRAPHY  
0605 1407  
BT #IMAGERY  
#PHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
ELECTRON BEAMS  
ELECTRON MICROSCOPES  
ELECTRON OPTICS  
ELECTRON SCATTERING  
ELECTRON PHOTON CASCADES  
0902 1001 1002 2402 2403  
RT BREMSSTRAHLUNG  
CASCADES  
COSMIC RAY SHOWERS  
ELECTRON SCATTERING  
PAIR PRODUCTION  
SECONDARY COSMIC RAYS  
ELECTRON PLASMA  
2402 2403 2502  
BT #PLASMAS (PHYSICS)  
RT ELECTRON BEAMS  
ELECTRON BOMBARDMENT  
ELECTRON DECAY RATE  
ELECTRON GAS  
HELIUM PLASMA  
HIGH TEMPERATURE PLASMAS  
LANDAU DAMPING  
METALLIC PLASMAS  
PLASMA-PARTICLE INTERACTIONS  
PLASMA WAVES  
RAREFIED PLASMAS  
RELATIVISTIC PLASMAS  
THERMAL PLASMAS  
ELECTRON PRECIPITATION  
1302 2402 2403  
BT CORPUSCULAR RADIATION  
RT #PARTICLES  
AURORAS  
ELECTRON ENERGY  
ELECTRON MOBILITY  
PRECIPITATION  
PROTON PRECIPITATION  
RADIATION BELTS  
SECONDARY COSMIC RAYS  
TRAPPED PARTICLES  
ELECTRON PRESSURE  
2403 3201  
BT #PRESSURE  
RADIATION PRESSURE  
RT ELECTRON ENERGY  
ELECTRON FLUX DENSITY  
ELECTRON IRRADIATION

## ELECTRON PROBES

0601 1411 2402 2403  
BT #MEASURING INSTRUMENTS  
RT CHEMICAL ANALYSIS  
ELECTRON BEAMS  
#IRRADIATION  
MICROWAVE PLASMA PROBES  
SPECTROMETERS  
ELECTRON RADIATION  
2402 2403  
(RADIATION CONSISTING OF ELECTRONS--  
EXCLUDES ELECTROMAGNETIC RADIATION)  
NT BETA PARTICLES  
ELECTRON BEAMS  
BT CORPUSCULAR RADIATION  
#PARTICLES  
RT BREMSSTRAHLUNG  
ELECTRON BOMBARDMENT  
ELECTRON FLUX DENSITY  
ELECTRON IRRADIATION  
ELECTRON SOURCES  
NUCLEAR RADIATION  
PLASMA RADIATION  
PROTON IRRADIATION  
RADIATION  
RADIATION EFFECTS  
ELECTRON RECOMBINATION  
0604 2401 2403  
NT RADIATIVE RECOMBINATION  
BT #RECOMBINATION REACTIONS  
RT ELECTRON-ION RECOMBINATION  
ION RECOMBINATION  
NEUTRAL PARTICLES  
ELECTRON RING ACCELERATORS  
USE STORAGE RINGS (PARTICLE  
ACCELERATORS)  
ELECTRON SCATTERING  
1002 2402 2403  
UF ELECTRON COLLISIONS  
ELECTRON INTERACTIONS  
BT #NUCLEAR REACTIONS  
#SCATTERING  
RT ATOMIC COLLISIONS  
ELASTIC SCATTERING  
ELECTRON CAPTURE  
ELECTRON DIFFRACTION  
ELECTRON PHOTOGRAPHY  
ELECTRON PHOTON CASCADES  
INELASTIC SCATTERING  
ION SCATTERING  
NUCLEAR SCATTERING  
#PARTICLE INTERACTIONS  
PHOTON-ELECTRON INTERACTION  
RAMSADDER EFFECT  
RECOIL IONS  
UMKLAFF PROCESS  
ELECTRON SOURCES  
1002 2402 2403  
RT ELECTRON EMISSION  
ELECTRON RADIATION  
ENERGY SOURCES  
#ION SOURCES  
POWER SUPPLIES  
RADIATION SOURCES  
SOURCES  
ELECTRON SPIN  
2402 2403  
BT #SPIN  
RT ANGULAR MOMENTUM  
NUCLEAR SPIN  
SPIN DYNAMICS  
ELECTRON SPIN RESONANCE  
USE ELECTRON PARAMAGNETIC RESONANCE  
ELECTRON STATES  
0604 2401 2402 2403 2601 2603  
BT ELECTRON ENERGY  
ENERGY LEVELS  
#LEVEL (QUANTITY)  
#PARTICLE ENERGY  
RT #EXCITATION  
GROUND STATE  
NOISE TEMPERATURE  
ELECTRON SWEEPING  
USE SWEEP FREQUENCY  
ELECTRON TELESCOPES  
USE PARTICLE TELESCOPES  
ELECTRON TEMPERATURE  
USE ELECTRON ENERGY  
ELECTRON TRAJECTORIES  
2402 2403  
UF ELECTRON PATHS  
BT PARTICLE TRAJECTORIES

## NASA THESAURUS (ALPHABETICAL LISTING)

#TRAJECTORIES  
RT DIFFRACTION PATHS  
ELECTRON BEAMS  
ELECTRON BOMBARDMENT  
ELECTRON DIFFRACTION  
ELECTRON DIFFUSION  
ELECTRON GUNS  
ELECTRON IMPACT  
ELECTRON ORBITALS  
ELECTRON TRANSFER  
MAGNETIC RIGIDITY  
RADIATION BELTS  
ELECTRON TRANSFER  
0403 0604 1002  
RT BACKWARD WAVE TUBES  
CHARGE EXCHANGE  
CHARGE TRANSFER  
ELECTRON DIFFUSION  
ELECTRON OSCILLATIONS  
ELECTRON TRAJECTORIES  
OXIDATION  
TRANSFERRING  
ELECTRON TRANSITIONS  
0604 1002 2402 2403  
RT ATOMIC THEORY  
AUGER EFFECT  
BALMER SERIES  
BAND STRUCTURE OF SOLIDS  
BOHR THEORY  
CONDUCTION BANDS  
ELECTRON DECAY RATE  
ELECTRON EMISSION  
ELECTRON OSCILLATIONS  
#EXCITATION  
FORBIDDEN TRANSITIONS  
FRANCK-CONDON PRINCIPLE  
NUCLEAR CAPTURE  
OPTICAL TRANSITION  
PASCHEN SERIES  
RYDBERG SERIES  
TRANSITION  
TRANSITION PROBABILITIES  
#ELECTRON TUBES  
0903 0905 0906 1409 2501 2602  
NT CAMERA TUBES  
IMAGE DISSECTOR TUBES  
IMAGE ORTHICONS  
MICROWAVE OSCILLATORS  
NIGOTRONS  
OBTHICONS  
RETURN BEAM VIDICONS  
THERMICON  
VACUUM TUBE OSCILLATORS  
VACUUM TUBES  
VIDICONS  
RT CAVITY RESONATORS  
#CIRCUITS  
CROSSED FIELD AMPLIFIERS  
#DIODES  
ELECTRON BEAMS  
ELECTRON BUNCHING  
ELECTRON EMISSION  
FIBER OPTICS  
HEATERS  
MODULATORS  
ORBITRONS  
#OSCILLATORS  
PENTODES  
PICTURE TUBES  
#RECTIFIERS  
RESONATORS  
TETRODES  
TRIODES  
TUBE GRIDS  
TUBES  
TUNNEL CATHODES  
VELOCITY MODULATION  
ELECTRON TUNNELING  
0905 0906  
UF TUNNEL RESISTORS  
RT ENERGY LEVELS  
SEMICONDUCTORS (MATERIALS)  
SUPERCONDUCTIVITY  
TUNNEL DIODES  
TUNNELING  
ELECTRONARCOSIS  
0404 0405 0408  
RT ELECTROANESTHESIA  
ELECTROPHYSIOLOGY  
ELECTRONIC AMPLIFIERS  
USE #AMPLIFIERS



# NASA THESAURUS (ALPHABETICAL LISTING)

**ELECTRONIC CONTROL**  
 0602 0905 1002 2102 3404  
 RT #AUTOMATIC CONTROL  
 CASCADE CONTROL  
 CONTROL  
 CONTROL EQUIPMENT  
 #CONTROLLERS  
 CURRENT REGULATORS  
 ELECTRIC CONTROL  
 ELECTRIC SWITCHES  
 FEEDBACK CONTROL  
 HYDRAULIC CONTROL  
 PNEUMATIC CONTROL  
 REMOTE CONTROL  
 VOLTAGE REGULATORS  
**ELECTRONIC COUNTERMEASURES**  
 0702 0704 1002 3401  
 NT ANTIRADAR COATINGS  
 CHAFF  
 BT #COUNTERMEASURES  
 RT DECEPTION  
 ELECTROMAGNETIC COMPATIBILITY  
 #ELECTROMAGNETIC INTERFERENCE  
 JAMMING  
 RADAR DETECTION  
 RADIO FREQUENCY INTERFERENCE  
**#ELECTRONIC EQUIPMENT**  
 0904 0905 1002  
 NT AVALANCHE DIODES  
 CRYOSAR  
 CRYOTRONS  
 CRYSTAL RECTIFIERS  
 ELECTRONIC FILTERS  
 ELECTRONIC MODULES  
 ELECTRONIC PACKAGING  
 ELECTRONIC RECORDING SYSTEMS  
 ELECTRONIC TRANSDUCERS  
 FIELD EFFECT TRANSISTORS  
 GALLIUM ARSENIDE LASERS  
 GERMANIUM DIODES  
 JUNCTION DIODES  
 JUNCTION TRANSISTORS  
 METAL OXIDE SEMICONDUCTORS  
 MICROMODULES  
 MIS (SEMICONDUCTORS)  
 NEURISTORS  
 PARAMETRIC DIODES  
 PHOTODIODES  
 PHOTOTRANSISTORS  
 PHOTOVOLTAIC CELLS  
 RUBY LASERS  
 SEMICONDUCTOR DEVICES  
 SEMICONDUCTOR LASERS  
 SILICON TRANSISTORS  
 SOLID STATE DEVICES  
 SOLID STATE LASERS  
 THERMISTORS  
 THYRISTORS  
 TRANSISTOR AMPLIFIERS  
 TRANSISTORS  
 VARACTOR DIODES  
 VARISTORS  
 RT ANTENNA COMPONENTS  
 ELECTRIC EQUIPMENT  
 ELECTRONIC EQUIPMENT TESTS  
 ELECTRONICS  
 EQUIPMENT  
 SPHERICAL ANTENNAS  
**ELECTRONIC EQUIPMENT TESTS**  
 0905 1002 1505 3404  
 (CHECKOUT OF ELECTRONIC EQUIPMENT)  
 RT ELECTRIC EQUIPMENT TESTS  
 ELECTRICAL MEASUREMENT  
 #ELECTRONIC EQUIPMENT  
 #ENVIRONMENTAL TESTS  
 #NONDESTRUCTIVE TESTS  
 OSCILLOSCOPES  
 QUALITY CONTROL  
 RESONANCE TESTING  
 STABILITY TESTS  
 TEST EQUIPMENT  
 TESTS  
 #VIBRATION TESTS  
**ELECTRONIC FILTERS**  
 1002  
 BT #ELECTRONIC EQUIPMENT  
 RT #ELECTRIC FILTERS  
 FILTERS  
**ELECTRONIC LEVELS**  
 USE ELECTRON ENERGY  
 ENERGY LEVELS

**ELECTRONIC MODULES**  
 0902 0905 1001 1002  
 NT MICROMODULES  
 BT #ELECTRONIC EQUIPMENT  
 #MODULES  
 RT ELECTRONIC PACKAGING  
 HARDWARE  
 MINIATURE ELECTRONIC EQUIPMENT  
 SUBMINIATURIZATION  
**ELECTRONIC PACKAGING**  
 0801 0902 0905 1002  
 BT #ELECTRONIC EQUIPMENT  
 PACKAGING  
 RT BILITHIC CIRCUITS  
 CIRCUIT BOARDS  
 ELECTRONIC MODULES  
 ENCAPSULATING  
 INTEGRATED CIRCUITS  
 LARGE SCALE INTEGRATION  
 MEDIUM SCALE INTEGRATION  
 MICROMODULES  
 PRINTED CIRCUITS  
 THICK FILMS  
**ELECTRONIC PHOTOGRAPHY**  
 USE ELECTRO-OPTICAL PHOTOGRAPHY  
**ELECTRONIC RECORDING SYSTEMS**  
 0801 0905 1002 1411  
 BT #ELECTRONIC EQUIPMENT  
 RT ELECTRONIC TRANSDUCERS  
 #RECORDING INSTRUMENTS  
 TAPE RECORDERS  
**ELECTRONIC SIGNAL MEASUREMENT**  
 USE SIGNAL MEASUREMENT  
**ELECTRONIC SPECTRA**  
 1411 2310 2402 2403  
 (EMISSION OR ABSORPTION MOLECULAR  
 SPECTRA OF AN ELECTRON TRANSITION)  
 BT ELECTROMAGNETIC SPECTRA  
 ENERGY SPECTRA  
 LINE SPECTRA  
 MOLECULAR SPECTRA  
 RADIATION SPECTRA  
 #SPECTRA  
 RT ABSORPTION SPECTRA  
 EMISSION SPECTRA  
 LYMAN SPECTRA  
 SPECTRAL BANDS  
 VIBRATIONAL SPECTRA  
**ELECTRONIC STRUCTURE**  
 USE ATOMIC STRUCTURE  
**ELECTRONIC SWITCHES**  
 USE SWITCHING CIRCUITS  
**ELECTRONIC TRANSDUCERS**  
 0905 1002 1413 2602  
 BT #ELECTRONIC EQUIPMENT  
 #TRANSDUCERS  
 RT ELECTRONIC RECORDING SYSTEMS  
 SENSORS  
 ULTRASONIC WAVE TRANSDUCERS  
**ELECTRONICS**  
 1001 1002 1003  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP PHOTOELECTRONICS  
 RT ASTRONAUTICS  
 AVIONICS  
 ELECTRICAL ENGINEERING  
 #ELECTRICITY  
 #ELECTRONIC EQUIPMENT  
 #ELECTROPHYSICS  
 MEDICAL ELECTRONICS  
 MICROELECTRONICS  
 MOLECULAR ELECTRONICS  
 NUCLEONICS  
 RADIO ELECTRONICS  
 THERMIONICS  
 TRANSISTOR CIRCUITS  
 VOLT-AMPERE CHARACTERISTICS  
**ELECTRONOGRAPHY**  
 1002 1407 1504 3404  
 RT ELECTROPHYSIOLOGY  
 PRINTING  
**ELECTRONS**  
 2401 2403  
 UP ELECTRON FLUX  
 NT CONDUCTION ELECTRONS  
 FREE ELECTRONS  
 HIGH ENERGY ELECTRONS  
 HOT ELECTRONS  
 N ELECTRONS  
 NEGATONS

# ELECTROPLATING

PHOTOELECTRONS  
 PI-ELECTRONS  
 POLARONS  
 BT CHARGED PARTICLES  
 ELEMENTARY PARTICLES  
 #PARTICLES  
 RT ACCEPTOR MATERIALS  
 BETA PARTICLES  
 BOHR MAGNETON  
 COSMIC RAYS  
 DONOR MATERIALS  
 ELECTRON MASS  
 EXCITONS  
 HOLES (ELECTRON DEFICIENCIES)  
 LEWIS BASE  
 MAJORITY CARRIERS  
 MATERIALS  
 MINORITY CARRIERS  
 MUONIUM  
 N-TYPE SEMICONDUCTORS  
 NUCLEAR RADIATION  
 POMERANCHUK THEOREM  
 QUANTUM NUMBERS  
 RADIATION BELTS  
 SEMICONDUCTORS (MATERIALS)  
 SUBL EFFECT  
**ELECTROPHORESIS**  
 0602 0604 2403  
 RT COLLOIDS  
 ELECTRODEPOSITION  
 ELECTROPLATING  
 PARTICLE MOTION  
**ELECTROPHOTOMETERS**  
 0605 1404 1406 1411 2306 2310  
 UP PHOTOELECTRIC PHOTOMETRY  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 PHOTOMETERS  
 RT ELECTROPHOTOMETRY  
**ELECTROPHOTOMETRY**  
 0605 1406 1411 2306 2310  
 BT CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 #OPTICAL MEASUREMENT  
 PHOTOMETRY  
 RT COLORIMETRY  
 ELECTROPHOTOMETERS  
 #ELECTROPHYSICS  
 MATERIALS TESTS  
 MICROANALYSIS  
 PHOTOMETERS  
 QUALITATIVE ANALYSIS  
 QUANTITATIVE ANALYSIS  
 SPECTROSCOPIC ANALYSIS  
 #SPECTROSCOPY  
**#ELECTROPHYSICS**  
 2304 2311  
 NT ELECTRO-OPTICS  
 MOLECULAR ELECTRONICS  
 RT ELECTRO-OPTICS  
 #ELECTROCHEMISTRY  
 ELECTROKINETICS  
 ELECTROMAGNETISM  
 ELECTRONICS  
 ELECTROPHOTOMETRY  
 PHYSICS  
 #THEORETICAL PHYSICS  
**ELECTROPHYSIOLOGY**  
 0404 0405 0501  
 BT PHYSIOLOGY  
 RT BODY MEASUREMENT (BIOLOGY)  
 DEPOLARIZATION  
 ELECTROCARDIOGRAPHY  
 ELECTROENCEPHALOGRAPHY  
 ELECTROHYDROGRAPHY  
 ELECTRONARCOSIS  
 ELECTRONOGRAPHY  
 ELECTROPLETHYSMOGRAPHY  
 ELECTRORETINOGRAPHY  
 #NERVOUS SYSTEM  
 NEUROLOGY  
**ELECTROPLATING**  
 0602 0604 1704 1802  
 BT COATING  
 #COATINGS  
 #DEPOSITION  
 ELECTRODEPOSITION  
 PLATING  
 RT BATHS  
 CURRENT DENSITY  
 #ELECTRODES

## ELECTROPLETHYSMOGRAPHY

ELECTROFORMING  
ELECTROLYSIS  
ELECTROLYTES  
ELECTROLYTIC CELLS  
ELECTROPHORESIS  
METALLIZING  
NICKEL PLATE  
PROTECTIVE COATINGS  
SURFACE FINISHING  
ELECTROPLETHYSMOGRAPHY  
0404 0405 0501  
BT #BIOENGINEERING  
BIOMETRICS  
BODY MEASUREMENT (BIOLOGY)  
PLETHYSMOGRAPHY  
RT BLOOD CIRCULATION  
ELECTROPHYSIOLOGY  
MEDICAL ELECTRONICS  
ELECTROPOLISHING  
0602 0604 1704  
UF ELECTROLYTIC POLISHING  
BT #METAL FINISHING  
METAL POLISHING  
#POLISHING  
RT ELECTROCHEMICAL MACHINING  
METALLOGRAPHY  
SURFACE FINISHING  
ELECTROREFINING  
0602 0604 1704  
BT REFINING  
RT #ELECTRODES  
ELECTROLITES  
ELECTROLYTIC CELLS  
ELECTROWINNING  
ELECTRORETINOGRAPHY  
0404 0405 0501  
BT #BIOENGINEERING  
BIOMETRICS  
RT ELECTROPHYSIOLOGY  
MEDICAL ELECTRONICS  
RETINA  
ELECTROSEISMIC EFFECT  
USE #ELECTRIC CURRENT  
SEISMIC WAVES  
ELECTROSLAG PROCESS  
0602 0604 1507 1704 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ELECTROSLAG REFINING  
ELECTROSLAG WELDING  
ELECTROSLAG REFINING  
3404  
BT REFINING  
RT ARC MELTING  
ELECTROSLAG PROCESS  
RESISTANCE HEATING  
ELECTROSLAG WELDING  
3404  
BT ELECTRIC WELDING  
FUSION WELDING  
#WELDING  
RT ELECTROSLAG PROCESS  
ELECTROSTATIC CHARGE  
0101 1202 1203 1503 2304 2402  
BT #ELECTRIC CHARGE  
RT CAPACITANCE  
CHARGE DISTRIBUTION  
CHARGING  
ELECTRIC DISCHARGES  
ELECTRIC FIELDS  
ELECTROSTATICS  
STATIC ELECTRICITY  
XEROGRAPHY  
ELECTROSTATIC DRAG  
0101 1002 2304  
BT DRAG  
#DYNAMIC CHARACTERISTICS  
RT DRAG MEASUREMENT  
SATELLITE DRAG  
ELECTROSTATIC ENGINES  
1504 2801 2808  
BT ELECTRIC ROCKET ENGINES  
#ENGINES  
ROCKET ENGINES  
RT ARC JET ENGINES  
CESIUM ENGINES  
ION ENGINES  
MICROROCKET ENGINES  
RESTARTABLE ROCKET ENGINES  
SUSTAINER ROCKET ENGINES  
VERNIER ENGINES

ELECTROSTATIC EROSION  
USE SPARK MACHINING  
ELECTROSTATIC FIELDS  
USE ELECTRIC FIELDS  
ELECTROSTATIC GENERATORS  
0301 0302 1503 1504  
BT DIRECT POWER GENERATORS  
#ELECTRIC GENERATORS  
RT ARC GENERATORS  
KLYSTRONS  
MAGNETRONS  
ROTATING GENERATORS  
VOLTAGE GENERATORS  
ELECTROSTATIC GYROSCOPES  
1403  
UF ELECTRICALLY SUSPENDED GYROSCOPES  
ESG (GYROSCOPES)  
BT #GYROSCOPES  
RT LEVITATION  
ELECTROSTATIC PLASMA  
USE #PLASMAS (PHYSICS)  
ELECTROSTATIC PRECIPITATORS  
0602 0604 1202 1203 2403 3404  
BT PRECIPITATORS  
#SEPARATORS  
RT ADSORPTION  
AIR PURIFICATION  
AIR SAMPLING  
DUST COLLECTORS  
SEPARATION  
ELECTROSTATIC PROBES  
2203 2405 2502  
UF LANGMUIR PROBES  
BT #MEASURING INSTRUMENTS  
PLASMA PROBES  
RT ELECTRON ENERGY  
PLASMA FREQUENCIES  
RADIATION COUNTERS  
ELECTROSTATIC PROPULSION  
2803 3404  
NT ION PROPULSION  
BT ELECTRIC PROPULSION  
LOW THRUST PROPULSION  
#PROPULSION  
SPACECRAFT PROPULSION  
RT ELECTROMAGNETIC PROPULSION  
PLASMA PROPULSION  
ELECTROSTATIC SHIELDING  
0905 2302 2304 2402  
BT #SHIELDING  
RT ELECTRIC CONDUCTORS  
ELECTROSTATIC WAVES  
1202 2304 2502  
BT #ELASTIC WAVES  
MAGNETOHYDRODYNAMIC WAVES  
PLASMA WAVES  
RT DIFFUSION WAVES  
IONIC WAVES  
LONGITUDINAL WAVES  
MAGNETOELASTIC WAVES  
SHOCK WAVES  
ELECTROSTATICS  
2304 2402  
BT #STATICS  
RT BORN-INFELD THEORY  
ELECTRIC FIELDS  
ELECTROMAGNETIC INTERACTIONS  
ELECTROMECHANICS  
ELECTROSTATIC CHARGE  
MAGNETOSTATICS  
POISSON EQUATION  
STATIC ELECTRICITY  
ELECTROSTRICTION  
2304 2305 2307 2602 3203  
BT #ELECTRICAL PROPERTIES  
#MECHANICAL PROPERTIES  
RT MAGNETOSTRICTION  
PIEZOELECTRICITY  
ELECTROTHERMAL ENGINES  
1504 2801 2803 2808 3404  
RT IT-761 ENGINE  
RT HIGH TEMPERATURE PROPELLANTS  
ION ENGINES  
NUCLEAR ELECTRIC PROPULSION  
PULSED JET ENGINES  
RESTARTABLE ROCKET ENGINES  
SUSTAINER ROCKET ENGINES  
ELECTROWINNING  
0604 1504 1704 3407  
RT ELECTRODEPOSITION  
#ELECTRODES  
ELECTROLITES

## NASA THESAURUS. (ALPHABETICAL LISTING)

ELECTROLYTIC CELLS  
ELECTROREFINING  
ELEKTRON 1 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ELEKTRON SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
ELEKTRON 2 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ELEKTRON SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
ELEKTRON 4 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ELEKTRON SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
ELEKTRON SATELLITES  
3107 3409  
NT ELEKTRON 1 SATELLITE  
ELEKTRON 2 SATELLITE  
ELEKTRON 4 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
ELEMENT ABUNDANCE  
USE ABUNDANCE  
ELEMENT 104  
0601  
BT #CHEMICAL ELEMENTS  
RT ELEMENTS  
ELEMENT 105  
0601  
BT #CHEMICAL ELEMENTS  
RT ELEMENTS  
#ELEMENTARY EXCITATIONS  
1901 2403  
UF QUASI-PARTICLES  
NT EXCITONS  
MAGNONS  
PHONON BEAMS  
PHONONS  
PLASMONS  
POLARONS  
RT MANY BODY PROBLEM  
#ELEMENTARY PARTICLE INTERACTIONS  
2403  
NT ELECTRON CAPTURE  
NUCLEAR CAPTURE  
RT ANGULAR DISTRIBUTION  
ELECTROMAGNETIC INTERACTIONS  
INTERACTIONS  
VENEZIANO MODEL  
ELEMENTARY PARTICLES  
2403  
NT ALPHA PARTICLES  
ANTINEUTRINOS  
ANTINUCLEONS  
ANTIPARTICLES  
ANTIPROTONS  
BARYON RESONANCES  
BETA PARTICLES  
BOSONS  
COLD NEUTRONS  
CONDUCTION ELECTRONS  
DEUTERONS  
ELECTRONS  
ETA-MESONS  
FAST NEUTRONS  
FERMIONS  
FREE ELECTRONS  
GRAVITONS  
HADRONES  
HIGH ENERGY ELECTRONS  
HOT ELECTRONS  
HYPERONS  
KAONS  
LEPTONS  
MESON RESONANCES  
MESONS  
# ELECTRONS  
NEGATONS  
NEUTRINOS  
NEUTRON BEAMS  
NEUTRONS

# NASA THESAURUS (ALPHABETICAL LISTING)

## EMERGENCIES

NUCLEONS  
 PHOTOELECTRONS  
 PHOTONEUTRONS  
 PHOTONS  
 PI-ELECTRONS  
 PIONS  
 POLARONS  
 POSITRONS  
 PROTONS  
 QUARKS  
 RECOIL PROTONS  
 SOLAR PROTONS  
 TACHYONS  
 THERMAL NEUTRONS  
 BT #PARTICLES  
 RT ATOMIC STRUCTURE  
 BUBBLE CHAMBERS  
 CHARGED PARTICLES  
 DE BROGLIE WAVELENGTHS  
 GEOCYCLOTRONS  
 HYPERNUCLEI  
 #IONIZING RADIATION  
 NEUTRON SCATTERING  
 NUCLEAR INTERACTIONS  
 NUCLEAR PARTICLES  
 NUCLEAR RADIATION  
 NUCLEI (NUCLEAR PHYSICS)  
 #PARTICLE ACCELERATORS  
 POMERANCHUK THEOREM  
 POSITRON ANNIHILATION  
 QUANTUM THEORY  
 RADIATION BELTS  
 ELEMENTS  
 0603 0903 0906 1703 1807 3203 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ATOMS  
 #CHEMICAL ELEMENTS  
 ELEMENT 104  
 ELEMENT 105  
 LIGHT ELEMENTS  
 LOGICAL ELEMENTS  
 NUCLEAR FUEL ELEMENTS  
 ORBITAL ELEMENTS  
 TASKS  
 ELEVATION  
 0201 1406 2103  
 RT ALTITUDE  
 CONTOURS  
 ELEVATION ANGLE  
 HEAD (FLUID MECHANICS)  
 HYDROSTATIC PRESSURE  
 HYDROSTATICS  
 LOW ALTITUDE  
 PRESSURE HEADS  
 TOPOGRAPHY  
 ELEVATION ANGLE  
 0201 1406 2103  
 UF ALMUCANTAR  
 LOOK ANGLES  
 BT ANGLES (GEOMETRY)  
 RT ALTITUDE  
 AZIMUTH  
 DATUM (ELEVATION)  
 ELEVATION  
 TOPOGRAPHY  
 ELEVATIONS (DRAWINGS)  
 USE DRAWINGS  
 ELEVATOR ILLUSION  
 0404 0408  
 BT ILLUSIONS  
 OPTICAL ILLUSION  
 #PSYCHOLOGICAL EFFECTS  
 RT VISUAL PERCEPTION  
 ELEVATORS (CONTROL SURFACES)  
 0101 0104  
 BT #AIRFOILS  
 #CONTROL SURFACES  
 RT AILERONS  
 ELEVONS  
 HORIZONTAL TAIL SURFACES  
 HYDROFOILS  
 STABILIZERS (FLUID DYNAMICS)  
 TABS (CONTROL SURFACES)  
 TAIL ASSEMBLIES  
 TAIL SURFACES  
 ELEVATORS (LIFTS)  
 1504  
 RT CONVEYORS  
 ESCALATORS  
 JACKS  
 LIFTS  
 WINCHES  
 ELEVONS  
 0101 0104 0201  
 BT #AIRFOILS  
 #CONTROL SURFACES  
 RT AILERONS  
 ELEVATORS (CONTROL SURFACES)  
 LATERAL CONTROL  
 TABS (CONTROL SURFACES)  
 ELIMINATION  
 3407  
 NT DELETION  
 RT #ATTENUATION  
 CANCELLATION  
 DECONTAMINATION  
 DEPLETION  
 DISCHARGE  
 DISPOSAL  
 EVACUATING (TRANSPORTATION)  
 EVACUATING (VACUUM)  
 EXCLUSION  
 EXHAUST SYSTEMS  
 EXHAUSTING  
 #POLLUTION  
 PURIFICATION  
 REDUCTION  
 REJECTION  
 SEPARATION  
 STOPPING  
 WASTE DISPOSAL  
 ELLIPSES  
 0101 1902 3203  
 BT ANALYTIC GEOMETRY  
 CONICS  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT CIRCLES (GEOMETRY)  
 ELLIPSOIDS  
 1304 1308 1902  
 UF IZSAK ELLIPSOID  
 BT #SYMMETRICAL BODIES  
 RT BODIES OF REVOLUTION  
 ELLIPTICITY  
 OGIVES  
 ELLIPSONETERS  
 1406 2310  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT PHOTOMETERS  
 POLARIMETERS  
 ELLIPTIC DIFFERENTIAL EQUATIONS  
 1902  
 NT MONGE-AMPERE EQUATION  
 BT #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 REAL VARIABLES  
 RT HALF SPACES  
 MAXIMUM PRINCIPLE  
 ELLIPTIC FUNCTIONS  
 1902  
 UF ELLIPTIC INTEGRALS  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
 MEROMORPHIC FUNCTIONS  
 JACOBI INTEGRAL  
 WEIERSTRASS FUNCTIONS  
 ELLIPTIC INTEGRALS  
 USE ELLIPTIC FUNCTIONS  
 ELLIPTICAL CYLINDERS  
 0101 1902  
 RT CIRCULAR CYLINDERS  
 CYLINDERS  
 CYLINDRICAL BODIES  
 CYLINDRICAL SHELLS  
 ELLIPTICAL ORBITS  
 1904 3006  
 UF HOHMANN TRAJECTORIES  
 HOHMANN TRANSFER ORBITS  
 NT APHELIONS  
 APOGEES  
 INTERPLANETARY TRANSFER ORBITS  
 PERIGEE  
 PERIHELIONS  
 TRANSFER ORBITS  
 BT #ORBITS  
 APSIDES  
 CIRCULAR ORBITS  
 EARTH-MARS TRAJECTORIES  
 EARTH-MERCURY TRAJECTORIES  
 EARTH ORBITS  
 ELLIPTICITY  
 EQUATORIAL ORBITS  
 EULER-LAMBERT EQUATION  
 LUNAR ORBITS  
 ORBITAL MECHANICS  
 PAS  
 PLANETARY ORBITS  
 POLAR ORBITS  
 SATELLITE ORBITS  
 SOLAR ORBITS  
 SPACECRAFT ORBITS  
 ELLIPTICAL POLARIZATION  
 2306 2311  
 BT POLARIZATION (WAVES)  
 RT CIRCULAR POLARIZATION  
 MAGNETOIONICS  
 ELLIPTICITY  
 1902 1904 3006 3406  
 UF BLUNTNESS  
 BT SHAPES  
 RT ECCENTRICITY  
 ELLIPSOIDS  
 ELLIPTICAL ORBITS  
 FLATTENING  
 OBLATE SPHEROIDS  
 ELONGATION  
 1901 1904 3006  
 RT ANGLES (GEOMETRY)  
 #DEFORMATION  
 DUCTILITY  
 ECCENTRICITY  
 #EXPANSION  
 #MECHANICAL PROPERTIES  
 PLASTIC DEFORMATION  
 STRETCHING  
 TENSILE DEFORMATION  
 TENSILE STRENGTH  
 ELUTION  
 0603 3407  
 UF ELUTRIATION  
 RT ADSORPTION  
 EXTRACTION  
 FLUSHING  
 LEACHING  
 PURIFICATION  
 SEPARATION  
 WASHING  
 ELUTRIATION  
 USE ELUTION  
 EM-36 ROCKET ENGINE  
 2808  
 BT #ENGINES  
 ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 EMANATION  
 USE EMISSION  
 EMBEDDING  
 1504 3201 3407  
 RT ACCELERATION PROTECTION  
 ENCAPSULATING  
 INSERTION  
 EMBOLISMS  
 0404 0405 0408 1202 1203  
 NT AEROEMBOLISM  
 FAT EMBOLISMS  
 RT BLOOD VESSELS  
 CLOTTING  
 COAGULATION  
 EMBRITTLEMENT  
 1704 3203  
 RT BRITTLE MATERIALS  
 BRITTLENESS  
 DEGRADATION  
 EMBRYOLOGY  
 0404  
 RT BIOLOGY  
 DIFFERENTIATION (BIOLOGY)  
 EMBRYOS  
 FETUSES  
 EMBRYOS  
 0402 0404  
 RT EGGS  
 EMBRYOLOGY  
 FETUSES  
 SEEDS  
 EMERALD  
 USE BERYL  
 EMERGENCIES  
 3406  
 RT FAIL-SAFE SYSTEMS

# EMERGENCY BREATHING TECHNIQUES

## EMERGENCY BREATHING TECHNIQUES

0405 0501 0502 0507  
RT EMERGENCY LIFE SUSTAINING SYSTEMS  
METHODODOLOGY  
PRESSURE BREATHING  
RESPIRATORS  
RESUSCITATION

## EMERGENCY LIFE SUSTAINING SYSTEMS

0401 0405 0504 0507 0508  
BT LIFE SUPPORT SYSTEMS  
RT EMERGENCY BREATHING TECHNIQUES  
ENVIRONMENTAL CONTROL  
ESCAPE CAPSULES  
FLOATS  
HIGH ALTITUDE BREATHING  
MEDICAL EQUIPMENT  
OXYGEN SUPPLY EQUIPMENT  
PORTABLE LIFE SUPPORT SYSTEMS  
PRESSURIZED CABINS  
PROTECTIVE CLOTHING  
SAFETY  
SAFETY DEVICES  
SURVIVAL EQUIPMENT  
SYSTEMS

## EMERGING

3407  
RT EMISSION  
EMISSION  
EMITTANCE

## EMISSION

1411 2401 2402 2403 2405 2803 3304

UP EMISSION  
BT BIOLUMINESCENCE  
CHEMILUMINESCENCE  
ELECTROLUMINESCENCE  
ELECTRON EMISSION  
FIELD EMISSION  
FLUORESCENCE  
HYDROXYL EMISSION  
INCANDESCENCE  
ION EMISSION  
LIGHT EMISSION  
LUMINESCENCE  
LUNAR LUMINESCENCE  
NEUTRON EMISSION  
OPTICAL RESONANCE  
PARTICLE EMISSION  
PHOSPHORESCENCE  
PHOTOELECTRIC EFFECT  
PHOTOELECTRIC EMISSION  
PHOTOIONIZATION  
PHOTOLUMINESCENCE  
RADIO EMISSION  
SECONDARY EMISSION  
SELF SUSTAINED EMISSION  
SHOCK WAVE LUMINESCENCE  
SOLAR RADIO BURSTS  
SOLAR RADIO EMISSION  
SONOLUMINESCENCE  
SPECTRAL EMISSION  
SPONTANEOUS EMISSION  
STIMULATED EMISSION  
THERMAL EMISSION  
THERMIONIC EMISSION  
THERMOLUMINESCENCE  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
X RAY FLUORESCENCE

BT DECAY  
RT AIRGLOW  
ATOMIC RECOMBINATION  
BURSTS  
DISCHARGE  
EJECTION  
EMERGING  
EMITTERS  
EXCITATION  
IONIZING RADIATION  
IRRADIATION  
NUCLEAR REACTIONS  
PAIR PRODUCTION  
QUANTUM THEORY  
RADIATION  
RADIOACTIVE DECAY  
RADIOACTIVITY  
RELEASING  
SPUTTERING

EMISSION SPECTRA  
0605 1411 2306 2310 2402 2403  
(ELECTROMAGNETIC RADIATION OF ANY

## WAVELENGTH EMITTED FROM EXCITED MATTER

--EXCLUDES PARTICLE SPECTRA)

BT RADIATION SPECTRA  
SPECTRA  
RT ABSORPTION SPECTRA  
ATOMIC RECOMBINATION  
BALMER SERIES  
CONTINUOUS RADIATION  
D LINES  
ELECTROMAGNETIC SPECTRA  
ELECTRONIC SPECTRA  
EXTARS  
GAMMA RAYS  
H ALPHA LINE  
H BETA LINE  
H GAMMA LINE  
H LINES  
HYDROXYL EMISSION  
INFRARED SPECTRA  
K LINES  
LINE SPECTRA  
LYMAN SPECTRA  
MOLECULAR SPECTRA  
MOLECULAR SPECTROSCOPY  
NUCLEAR RADIATION  
OPTICAL EMISSION SPECTROSCOPY  
OPTICAL TRANSITION  
PASCHEN SERIES  
PHOTOLUMINESCENT BANDS  
PLASMA SPECTRA  
RAMAN SPECTRA  
RYDBERG SERIES  
SCHUMANN-RUNGE BANDS  
SOLAR SPECTRA  
SOLAR SPECTROMETERS  
SPECTRAL SIGNATURES  
SPECTRUM ANALYSIS  
SPONTANEOUS EMISSION  
STELLAR SPECTRA  
SWAN BANDS  
ULTRAVIOLET SPECTRA  
VEGARD-KAPLAN BANDS  
X RAYS

## EMISSION

0605 1411 2306 2310 2402 3406

UP PHOTOEMISSION  
BT THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
RT BLACK BODY RADIATION  
BRIGHTNESS  
EMERGING  
EMITTANCE  
HOLLAUMS  
INCANDESCENCE  
LUMINOSITY  
NONGRAY ATMOSPHERES  
NONGRAY GAS  
OPTICAL MEASUREMENT  
RADIANCE  
RADIANT FLUX DENSITY  
STEFAN-BOLTZMANN LAW  
SURFACE PROPERTIES  
TEMPERATURE  
THERMAL EMISSION

## EMISSOGRAPHS

USE ACTINOMETERS  
RECORDING INSTRUMENTS

## EMITTANCE

0605 1411 2306 2310 2402 3406

RT EMERGING  
EMISSION  
FLUX (RATE)  
LUMINOSITY  
LUMINOUS INTENSITY  
OPTICAL PROPERTIES  
RADIANCE  
RADIANT FLUX DENSITY  
SPECTRAL EMISSION  
THERMODYNAMIC PROPERTIES

## EMITTERS

0906 1002 2602  
RT THERMIONIC EMITTERS  
RT ELECTRON EMISSION  
EMISSION  
SEMICONDUCTORS (MATERIALS)

## EMOTIONAL FACTORS

0408 0410  
RT DETACHMENT  
DISORDERS  
DITHERS  
FEEDBACK  
FRUSTRATION

# NASA THESAURUS (ALPHABETICAL LISTING)

HUMAN REACTIONS  
MOODS  
PANIC  
PHOBIA  
PSYCHOLOGICAL FACTORS  
PSYCHOLOGY  
SENSORY FEEDBACK  
SENSORY STIMULATION

## EMOTIONS

0408 0410  
RT DEPRESSION  
FEAR  
FEAR OF FLYING  
FRUSTRATION  
HUMAN BEHAVIOR  
LAUGHING  
MOODS  
PANIC  
PSYCHOLOGICAL EFFECTS  
PSYCHOLOGY  
SENSORY FEEDBACK  
UPSETTING

## EMPHISEMA

0404 0405 0408  
BT DISEASES  
RESPIRATORY DISEASES

## EMPLOYEE RELATIONS

3402 3406  
RT PERSONNEL  
PERSONNEL DEVELOPMENT  
PERSONNEL MANAGEMENT  
POSITION (TITLE)  
PRODUCTION MANAGEMENT  
RETIREMENT  
WAGE SURVEYS

## EMPLOYMENT

3402 3406  
RT PERSONNEL SELECTION  
TESTS

## EMPTYING

0203 0208 1502  
RT DISPOSAL  
DUMPING  
EJECTION  
EXPULSION  
EXPULSION BLADDERS  
JETTISONING  
MATERIALS HANDLING  
RELEASING  
REMOVAL  
SPILLING  
SPREADING  
UNLOADING

## EMULSIONS

0603 1407 2403 2405  
RT NUCLEAR EMULSIONS  
PHOTOGRAPHIC EMULSIONS  
BT DISPERSIONS  
MIXTURES  
RT BROWNIAN MOVEMENTS  
COLLOIDS  
SLURRIES  
SOLUTIONS

## ENAMELS

1704 1801 1802  
BT COATINGS  
FINISHES  
RT PORCELAIN

## ENARGITE

1703 1806  
BT CHALCOGENIDES  
COPPER COMPOUNDS  
COPPER SULFIDES  
INORGANIC SULFIDES  
SULFIDES  
SULFUR COMPOUNDS

## ENCAPSULATING

0203 0504 1002 1802 3404  
BT COATING  
COATINGS  
RT CANNING  
ELECTRONIC PACKAGING  
EMBEDDING  
IMBEDDINGS  
MATERIALS HANDLING  
PACKAGING  
PLASTIC COATINGS  
POTTING COMPOUNDS  
PROTECTIVE COATINGS  
SEALING  
SHEATHS

# NASA THESAURUS (ALPHABETICAL LISTING)

**ENCEPHALITIS**  
 0405  
 BT #DISEASES  
 RT BRAIN  
**ENCKE METHOD**  
 0102 1904 3006  
 RT METHODOLOGY  
**ENCLOSURE**  
 3407  
 RT CASING  
 HOUSINGS  
 PACKAGING  
**ENCLOSURES**  
 0202 1101 1105 1108 1504 3203  
 RT AIR LOCKS  
 BARRIERS  
 BIOPAKS  
 CLOSURES  
 #COMPARTMENTS  
 CONTAINERS  
 COVERINGS  
 ENVELOPES  
 HOUSINGS  
 PENS  
 PERFORATED SHELLS  
 PRESSURE CHAMBERS  
 PROTECTORS  
 ROOMS  
 SAFETY DEVICES  
 #SHELLS (STRUCTURAL FORMS)  
 #SHIELDING  
 WALLS  
**ENCODERS**  
 USE CODERS  
**ENCODING**  
 USE CODING  
**ENCOUNTERS**  
 2308 2401 2404 2405 2502 3401  
 RT #CRASHES  
 #SCATTERING  
**END PLATES**  
 1504 3202  
 BT PLATES (STRUCTURAL MEMBERS)  
 RT #STRUCTURAL MEMBERS  
 ANISOTROPIC PLATES  
 BULKHEADS  
 CIRCULAR PLATES  
 CLOSURES  
 PLAT PLATES  
 SHALLOW SHELL EQUATIONS  
**ENDFIRE ARRAYS**  
 0901  
 NT YAGI ANTENNAS  
 BT ANTENNA ARRAYS  
 #ARRAYS  
 LINEAR ARRAYS  
 RT DIRECTIONAL ANTENNAS  
**ENDOCRINE GLANDS**  
 0404 0405 0408  
 RT ADRENAL GLAND  
 GONADS  
 OVARIES  
 PANCREAS  
 PARATHYROID GLAND  
 PINEAL GLAND  
 PITUITARY GLAND  
 PROSTATE GLAND  
 THYMUS GLAND  
 THYROID GLAND  
 BT #ANATOMY  
 GLANDS (ANATOMY)  
 #VISCERA  
 RT ENDOCRINE SECRETIONS  
 ENDOCRINE SYSTEMS  
 ENDOCRINOLOGY  
 ESTROGENS  
**ENDOCRINE SECRETIONS**  
 0403  
 NT ESTROGENS  
 HORMONES  
 INSULIN  
 BT #SECRETIONS  
 RT CORTICOSTEROIDS  
 ENDOCRINE GLANDS  
 ENDOCRINE SYSTEMS  
**ENDOCRINE SYSTEMS**  
 0404 0405 0408  
 RT ENDOCRINE GLANDS  
 ENDOCRINE SECRETIONS  
 ENDOCRINOLOGY  
 GLANDS (ANATOMY)  
 HORMONES

**ENDOCRINOLOGY**  
 0404 0405  
 BT #MEDICAL SCIENCE  
 RT ENDOCRINE GLANDS  
 ENDOCRINE SYSTEMS  
**ENDOGENOUS CONDITIONS**  
 USE PHYSIOLOGY  
**ENDOLYMPH**  
 0404 0405 0408  
 BT #BODY-FLUIDS  
 RT EAR  
**ENDORADIOSONDES**  
 0202 0501 0701 0707 0708 1406 2402  
 BT #MEASURING INSTRUMENTS  
 METEOROLOGICAL INSTRUMENTS  
 #RADIO EQUIPMENT  
 RADIO TRANSMITTERS  
 RADIOSONDES  
 SONDES  
 #TRANSMITTERS  
**ENDOSCOPES**  
 0405 0501  
 UP BORESCOPES  
 BT #MEDICAL EQUIPMENT  
 #OPTICAL EQUIPMENT  
 RT INSPECTION  
**ENDOTHELIUM**  
 0404  
 BT TISSUES (BIOLOGY)  
**ENDOTHERMIC FUELS**  
 1808 2701 2702 3301  
 BT CHEMICAL FUELS  
 #FUELS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 DOUBLE BASE PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 HYDROCARBON FUELS  
 PROPELLANT DECOMPOSITION  
**ENDOTHERMIC REACTIONS**  
 0603 3304  
 BT #CHEMICAL REACTIONS  
 RT EXOTHERMIC REACTIONS  
 HEAT SINKS  
 PYROLYSIS  
**ENDOTOXINS**  
 0403 0404 0412  
 BT #POISONS  
 TOKINS AND ANTITOKINS  
 RT BACTERIOLOGY  
 TOXICOLOGY  
**ENDRIN**  
 0412 1808  
 BT EPOXY COMPOUNDS  
 #HETEROCYCLIC COMPOUNDS  
 RT INSECTICIDES  
**ENDURANCE**  
 1505 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DURABILITY  
 FATIGUE (MATERIALS)  
**ENEMY PERSONNEL**  
 3401  
 BT #PERSONNEL  
**ENERGETIC PARTICLE EXPLORER A**  
 USE EXPLORER 12 SATELLITE  
**ENERGETIC PARTICLE EXPLORER B**  
 USE EXPLORER 14 SATELLITE  
**ENERGETIC PARTICLE EXPLORER C**  
 USE EXPLORER 15 SATELLITE  
**ENERGETIC PARTICLE EXPLORER D**  
 USE EXPLORER 26 SATELLITE  
**ENERGY**  
 0301 2311 2402  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP HIGH ENERGY  
 RT ACTIVATION ENERGY  
 BERNSTEIN ENERGY PRINCIPLE  
 CHEMICAL ENERGY  
 ELECTRON ENERGY  
 ENERGY CONVERSION EFFICIENCY  
 ENERGY OF FORMATION  
 ENTHALPY  
 ENTROPY  
 FLUX (RATE)  
 FLUX DENSITY  
 FREE ENERGY  
 HEAT  
 INTERFACIAL ENERGY

## ENERGY CONVERSION EFFICIENCY

INTERNAL ENERGY  
 KINETIC ENERGY  
 MOLECULAR ENERGY LEVELS  
 NUCLEAR BINDING ENERGY  
 #PARTICLE ENERGY  
 #POTENTIAL ENERGY  
 PROTON ENERGY  
 RADIANT HEATING  
 SEISMIC ENERGY  
 SOLAR ENERGY  
 STACKING FAULT ENERGY  
 STRAIN ENERGY METHODS  
 SURFACE ENERGY  
 THERMAL ENERGY  
 THERMONUCLEAR POWER GENERATION  
 WORK  
**#ENERGY ABSORPTION**  
 3407 3408  
 UP NONREFLECTION  
 RT AURORAL ABSORPTION  
 ELECTROMAGNETIC ABSORPTION  
 MODERATION (ENERGY ABSORPTION)  
 MOLECULAR ABSORPTION  
 NEUTRON THERMALIZATION  
 PHOTOABSORPTION  
 POLAR CAP ABSORPTION  
 SELF ABSORPTION  
 THERMAL ABSORPTION  
 THERMALIZATION (ENERGY ABSORPTION)  
 ULTRAVIOLET ABSORPTION  
 X RAY ABSORPTION  
 RT ABSORBERS (MATERIALS)  
 ABSORPTION  
 DAMPING  
 ENERGY ABSORPTION FILMS  
**#ENERGY BUDGETS**  
 ENERGY CONVERSION EFFICIENCY  
 ENERGY TRANSFER  
 HEAT SINKS  
 INFRARED RADIATION  
 LIGHT (VISIBLE RADIATION)  
 SHOCK ABSORBERS  
 SOUND TRANSMISSION  
 VIBRATION ISOLATORS  
**ENERGY ABSORPTION FILMS**  
 0301 1802 2902  
 BT THIN FILMS  
 RT ALUMINUM OXIDES  
 #COATINGS  
 DIRECT POWER GENERATORS  
**#ENERGY ABSORPTION**  
 GOLAY DETECTOR CELLS  
 MONOMOLECULAR FILMS  
 PHOTOELECTRIC CELLS  
 PHOTOVOLTAIC CONVERSION  
 SEMICONDUCTING FILMS  
 SOLAR ENERGY  
**ENERGY BANDS**  
 1002 1704 2404 2601 2602 2603  
 RT BLOCH BANDS  
 CONDUCTION BANDS  
 FORBIDDEN BANDS  
 RT BANDS  
 ENERGY DISTRIBUTION  
 EXCITONS  
 SPECTRAL BANDS  
 WINDOWS (INTERVALS)  
**#ENERGY BUDGETS**  
 1308  
 RT ATMOSPHERIC HEAT BUDGET  
 HEAT BUDGET  
 RT BUDGETS  
**#ENERGY ABSORPTION**  
 ENERGY DISSIPATION  
 ENERGY REQUIREMENTS  
 ENERGY TRANSFER  
**ENERGY CONVERSION**  
 0301 0603 1201 2311 3303  
 RT DIRECT POWER GENERATORS  
 POWER CONDITIONING  
**ENERGY CONVERSION EFFICIENCY**  
 0301 1201  
 BT #EFFICIENCY  
 RT DIRECT POWER GENERATORS  
 ENERGY  
**#ENERGY ABSORPTION**  
 ENERGY DISSIPATION  
 ENERGY TRANSFER  
**#ENGINES**  
 FUEL CELLS  
 GENERATORS  
**#MOTORS**

## ENERGY CONVERTERS

POWER CONDITIONING  
#TRANSDUCERS  
ENERGY CONVERTERS  
USE DIRECT POWER GENERATORS  
ENERGY DENSITY  
USE FLUX DENSITY  
ENERGY DISSIPATION  
3407  
UF ENERGY LOSSES  
BT DISSIPATION  
RT #ENERGY BUDGETS  
ENERGY CONVERSION EFFICIENCY  
#FRICTION  
INSERTION LOSS  
LAGRANGE SIMILARITY HYPOTHESIS  
LOSSES  
NONADIABATIC THEORY  
TRAVELING CHARGE  
ENERGY DISTRIBUTION  
2301 2304 2402 2403 2405 2502  
NT SPECTRAL ENERGY DISTRIBUTION  
BT #DISTRIBUTION (PROPERTY)  
RT ENERGY BANDS  
ENERGY LEVELS  
ENERGY SPECTRA  
EQUIPARTITION THEOREM  
FLUX DENSITY  
FORCE DISTRIBUTION  
QUANTUM MECHANICS  
STATISTICAL MECHANICS  
ENERGY EQUIPARTITION  
USE EQUIPARTITION THEOREM  
ENERGY EXCHANGE  
USE ENERGY TRANSFER  
ENERGY LEVELS  
2306 2401 2402 2403 2404 2405  
UF ELECTRONIC LEVELS  
NT ATOMIC ENERGY LEVELS  
ELECTRON STATES  
GROUND STATE  
INTERMOLECULAR FORCES  
MOLECULAR ENERGY LEVELS  
BT #LEVEL (QUANTITY)  
RT ATOMIC EXCITATIONS  
ATOMIC STRUCTURE  
ELECTRON TUNNELING  
ENERGY DISTRIBUTION  
#EXCITATION  
FERMI SURFACES  
MOLECULAR EXCITATION  
NUCLEAR CAPTURE  
NUCLEAR MODELS  
NUCLEAR QUADRUPOLE RESONANCE  
NUCLEAR SPIN  
NUCLEAR STRUCTURE  
POPULATION INVERSION  
QUANTUM NUMBERS  
QUANTUM THEORY  
ENERGY LOSSES  
USE ENERGY DISSIPATION  
ENERGY METHODS  
3203 3204  
NT BERNSTEIN ENERGY PRINCIPLE  
STRAIN ENERGY METHODS  
BT #STRUCTURAL ANALYSIS  
RT CASTIGLIANO VARIATIONAL THEOREM  
MATRICES (MATHEMATICS)  
METHODOLOGY  
STRESS ANALYSIS  
ENERGY OF FORMATION  
0603 2311 2404 3304  
BT CHEMICAL ENERGY  
RT ENERGY  
FREE ENERGY  
MOLECULAR ENERGY LEVELS  
ENERGY REQUIREMENTS  
0404 2311 3408  
RT #ENERGY BUDGETS  
ENERGY SOURCES  
ENERGY STORAGE  
FUEL CONSUMPTION  
POWER SUPPLIES  
ENERGY SOURCES  
0301 0904 2204  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #AUXILIARY POWER SOURCES  
ELECTRIC BATTERIES  
#ELECTRIC GENERATORS  
ELECTRON SOURCES  
ENERGY REQUIREMENTS

HEAT SOURCES  
#PLASMA POWER SOURCES  
POINT SOURCES  
#PROPELLANTS  
#RECTIFIERS  
SPACECRAFT POWER SUPPLIES  
ENERGY SPECTRA  
2306 2310 2402 2403 2901 2902 2903  
NT ELECTRONIC SPECTRA  
NEUTRON SPECTRA  
BT #SPECTRA  
RT ABSORPTION SPECTRA  
ELECTROMAGNETIC SPECTRA  
ENERGY DISTRIBUTION  
MASS SPECTRA  
MOLECULAR SPECTRA  
PLASMA SPECTRA  
POWER SPECTRA  
RADIATION SPECTRA  
SHOCK SPECTRA  
SPECTRAL ENERGY DISTRIBUTION  
VIBRATIONAL SPECTRA  
ENERGY STORAGE  
0303 1002 1504 2201 3304 3404  
UF ENERGY STORAGE DEVICES  
NT ELECTRIC ENERGY STORAGE  
HEAT STORAGE  
BT CAPACITORS  
COMPRESSED AIR  
ELECTRETS  
ELECTRIC BATTERIES  
ENERGY REQUIREMENTS  
ENERGY TRANSFER  
FLYWHEELS  
FUEL CELLS  
#FUELS  
HEAT SOURCES  
INDUCTORS  
NUCLEAR ENERGY  
#POTENTIAL ENERGY  
REGENERATORS  
SPRINGS (ELASTIC)  
STORAGE  
SUPERCONDUCTORS  
ENERGY STORAGE DEVICES  
USE ENERGY STORAGE  
ENERGY TRANSFER  
2311 2402 2403 2404 3303 3304  
(MACROSCOPIC MECHANICAL INTERACTIONS--  
EXCLUDES QUANTUM INTERACTIONS, DIRECT  
ENERGY CONVERSION, HEAT TRANSFER AND  
TRANSDUCERS)  
UF ENERGY EXCHANGE  
NT COUPLING CIRCUITS  
LINEAR ENERGY TRANSFER (LET)  
RT ANTENNA COUPLERS  
CYCLOTRON RESONANCE  
#ENERGY ABSORPTION  
#ENERGY BUDGETS  
ENERGY CONVERSION EFFICIENCY  
ENERGY STORAGE  
GAS-LIQUID INTERACTIONS  
GAS TRANSPORT  
HEAT TRANSFER  
HEISENBERG THEORY  
LAGRANGE SIMILARITY HYPOTHESIS  
MASS TRANSFER  
MOMENTUM TRANSFER  
PLASMA HEATING  
POYNTING THEOREM  
RADIATIVE TRANSFER  
TERMINAL BALLISTICS  
TRANSFERRING  
ENGINE ANALYZERS  
1406  
BT ANALYZERS  
#MEASURING INSTRUMENTS  
RT ENGINE TESTS  
ENGINE CONTROL  
2102 2801 2805 2808  
NT ROCKET ENGINE CONTROL  
TURBOJET ENGINE CONTROL  
RT AIRCRAFT CONTROL  
#AUTOMATIC CONTROL  
COMBUSTION CONTROL  
CONTROL  
ELECTRIC CONTROL  
#FLIGHT INSTRUMENTS  
FUEL CONTROL  
HYDRAULIC CONTROL  
MANUAL CONTROL  
PNEUMATIC CONTROL

## NASA THESAURUS (ALPHABETICAL LISTING)

REMOTE CONTROL  
#SPACECRAFT CONTROL  
SPEED CONTROL  
TEMPERATURE CONTROL  
THRUST CONTROL  
ENGINE COOLANTS  
1803 2801 2805 2808  
BT COOLANTS  
RT #COOLING  
COOLING SYSTEMS  
ENGINE DESIGN  
2801 2805 2808 3404  
RT AIRCRAFT DESIGN  
COMPUTERIZED DESIGN  
DESIGN  
HELICOPTER DESIGN  
MISSILE DESIGN  
NOZZLE DESIGN  
PRODUCT DEVELOPMENT  
REACTOR DESIGN  
SPACECRAFT DESIGN  
ENGINE FAILURE  
2801 2805 2808  
BT FAILURE  
RT ABORTED MISSIONS  
CUT-OFF  
ENGINE MONITORING INSTRUMENTS  
ENGINE TESTS  
INGESTION (ENGINES)  
STALLING  
ENGINE INLETS  
1504 2801 2805 2808  
BT AIR INTAKES  
#INTAKE SYSTEMS  
RT DIFFUSERS  
INLET NOZZLES  
INTERNAL COMPRESSION INLETS  
WACELLES  
ENGINE MONITORING INSTRUMENTS  
2801 2805 2808  
BT #MEASURING INSTRUMENTS  
RT ENGINE FAILURE  
ENGINE TESTS  
#FLIGHT INSTRUMENTS  
ENGINE NOISE  
2301 2801 2805 2808  
NT ROCKET ENGINE NOISE  
BT #ELASTIC WAVES  
NOISE (SOUND)  
SOUND WAVES  
RT AIRCRAFT NOISE  
JET AIRCRAFT NOISE  
ENGINE PARTS  
0905 1504 2801 2805 2808  
RT CARBURETORS  
CLUTCHES  
COMBUSTION CHAMBERS  
COMPONENTS  
FLYWHEELS  
INTERNAL COMBUSTION ENGINES  
PISTONS  
ROCKET LININGS  
SPARE PARTS  
TURBINE BLADES  
TURBINE WHEELS  
#VALVES  
ENGINE PRIMERS  
2801 2805 2808  
RT INTERNAL COMBUSTION ENGINES  
PRIMERS  
STARTING  
ENGINE STARTERS  
0905 1504 2801 2805 2808  
BT STARTERS  
RT #ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
ENGINE TESTING LABORATORIES  
1108  
BT #LABORATORIES  
#TEST FACILITIES  
RT ENGINE TESTS  
#ENGINES  
ENGINE TESTS  
1108 2801 2805 2808  
UF GROUND RUN-UP  
RUNUP  
NT COLD FLOW TESTS  
PREFIRING TESTS  
SPACE ELECTRIC ROCKET TESTS  
STATIC FIRING  
RT ALTITUDE TESTS

# NASA THESAURUS (ALPHABETICAL LISTING)

# ENGLISH ELECTRIC AIRCRAFT

#CAPTIVE TESTS  
 ENGINE ANALYZERS  
 ENGINE FAILURE  
 ENGINE MONITORING INSTRUMENTS  
 ENGINE TESTING LABORATORIES  
 FLIGHT TESTS  
 FUEL TESTS  
 FULL SCALE TESTS  
 #GROUND TESTS  
 LUBRICANT TESTS  
 MISSILE TESTS  
 #NONDESTRUCTIVE TESTS  
 PREFIRING TESTS  
 PRELAUNCH TESTS  
 PROPELLANT TESTS  
 PROPULSIVE EFFICIENCY  
 ROCKET ENGINE DESIGN  
 ROCKET TEST FACILITIES  
 SERT 1 SPACECRAFT  
 SERT 2 SPACECRAFT  
 STATIC TESTS  
 TEST FIRING  
 TEST STANDS  
 TESTING TIME  
 TESTS  
 #VIBRATION TESTS  
 ENGINEERING  
 3404 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 BT AERONAUTICAL ENGINEERING  
 AEROSPACE ENGINEERING  
 AIRPLANE PRODUCTION COSTS  
 ANTHROPOMETRY  
 #BIOENGINEERING  
 BIOINSTRUMENTATION  
 BIOMETRICS  
 BIOTELEMETRY  
 BODY MEASUREMENT (BIOLOGY)  
 CHEMICAL ENGINEERING  
 ENVIRONMENTAL ENGINEERING  
 MAN MACHINE SYSTEMS  
 MECHANICAL ENGINEERING  
 PRODUCTION ENGINEERING  
 REACTOR TECHNOLOGY  
 RELIABILITY ENGINEERING  
 STRUCTURAL ENGINEERING  
 SYSTEMS ENGINEERING  
 UNDERWATER ENGINEERING  
 VALUE ENGINEERING  
 ENGINEERING DEVELOPMENT  
 USE PRODUCT DEVELOPMENT  
 ENGINEERING DRAWINGS  
 0201 3404 3407  
 BT MECHANICAL DRAWINGS  
 UP BLUEPRINTS  
 BT #DOCUMENTS  
 DRAWINGS  
 BT CIRCUIT DIAGRAMS  
 DESCRIPTIVE GEOMETRY  
 DESIGN  
 #DIMENSIONS  
 GRAPHIC ARTS  
 LAYOUTS  
 LOFTING  
 REPRODUCTION (COPYING)  
 ENGINEERING MANAGEMENT  
 3404 3406 3409  
 BT INDUSTRIAL MANAGEMENT  
 #MANAGEMENT  
 BT ALLOCATIONS  
 BUDGETS  
 GOALS  
 MANPOWER  
 PRIORITIES  
 RESEARCH MANAGEMENT  
 RESOURCE ALLOCATION  
 #RESOURCES  
 ENGINEERING TEST REACTORS  
 1108 2204 3404  
 UP ETR (REACTORS)  
 BT #NUCLEAR REACTORS  
 BT REACTOR DESIGN  
 REACTOR TECHNOLOGY  
 #ENGINES  
 0301 1504 2801 2808  
 (MACHINES WITH SELF-CONTAINED POWER  
 SOURCES FOR CONTINUOUS OPERATION-- SEE  
 MOTORS FOR MACHINES UTILIZING EXTERNAL  
 POWER SOURCES FOR NORMAL OPERATION)  
 UP GAS GENERATOR ENGINES  
 NT HEAT ENGINES  
 AIR BREATHING ENGINES  
 AJ-10 ENGINE  
 ALGOL ENGINE  
 ASROC ENGINE  
 BE-3 ENGINE  
 BOOSTER ROCKET ENGINES  
 BRISTOL-SIDDELEY BS 53 ENGINE  
 BRISTOL-SIDDELEY BK 301 ENGINE  
 BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
 BRISTOL-SIDDELEY VIPER ENGINE  
 CESIUM ENGINES  
 CF-700 ENGINE  
 CONTROL ROCKETS  
 DIESEL ENGINES  
 DUCTED FAN ENGINES  
 DUCTED ROCKET ENGINES  
 ELECTRIC ROCKET ENGINES  
 ELECTROSTATIC ENGINES  
 EM-36 ROCKET ENGINE  
 F-1 ROCKET ENGINE  
 GAS TURBINE ENGINES  
 H-1 ENGINE  
 HERCULES ENGINE  
 HEUS ROCKET ENGINES  
 HOT WATER ROCKET ENGINES  
 HYBRID PROPELLANT ROCKET ENGINES  
 HYDRAZINE ENGINES  
 HYDROGEN OXYGEN ENGINES  
 INTERNAL COMBUSTION ENGINES  
 ION ENGINES  
 J-2 ENGINE  
 J-33 ENGINE  
 J-34 ENGINE  
 J-40 ENGINE  
 J-44 ENGINE  
 J-47 ENGINE  
 J-52 ENGINE  
 J-57 ENGINE  
 J-65 ENGINE  
 J-71 ENGINE  
 J-73 ENGINE  
 J-75 ENGINE  
 J-79 ENGINE  
 J-84 ENGINE  
 J-85 ENGINE  
 J-93 ENGINE  
 J-97 ENGINE  
 J-57-P-20 ENGINE  
 J-69-T-25 ENGINE  
 JATO ENGINES  
 JET ENGINES  
 LIQUID AIR CYCLE ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 LITHERGOL ROCKET ENGINES  
 LOW VOLUME RAMJET ENGINES  
 LR-59-AJ-13 ENGINE  
 LR-87-AJ-3 ENGINE  
 LR-87-AJ-5 ENGINE  
 LR-91-AJ-3 ENGINE  
 LR-91-AJ-5 ENGINE  
 LR-62 ENGINE  
 LR-99 ENGINE  
 LR-62-RM-2 ENGINE  
 M-1 ENGINE  
 M-46 ENGINE  
 M-55 ENGINE  
 M-56 ENGINE  
 M-57 ENGINE  
 M-100 ENGINE  
 MA-2 ENGINE  
 MA-3 ENGINE  
 MA-5 ENGINE  
 MARQUARDT R4D ENGINE  
 MG-18 ENGINE  
 MICROROCKET ENGINES  
 NIKE BOOSTER ROCKET ENGINES  
 NUCLEAR ENGINE FOR ROCKET VEHICLES  
 NUCLEAR RAMJET ENGINES  
 NUCLEAR ROCKET ENGINES  
 P-1 ENGINE  
 PISTON ENGINES  
 PLASMA ENGINES  
 PTL-6 ENGINE  
 PULSED JET ENGINES  
 PULSEJET ENGINES  
 RA-28 ENGINE  
 RAMJET ENGINES  
 RESTARTABLE ROCKET ENGINES  
 RETROROCKET ENGINES  
 RI-10-A-1 ENGINE  
 RI-10-A-3 ENGINE  
 RL-10 ENGINES  
 ROCKET ENGINE 1KS-420  
 ROCKET ENGINE 2KS-36250  
 ROCKET ENGINE 9KS-11000  
 ROCKET ENGINE 15KS-25000  
 ROCKET ENGINES  
 SL-3 ROCKET ENGINE  
 SOLID PROPELLANT ROCKET ENGINES  
 STF-102 ENGINE  
 SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 SUSTAINER ROCKET ENGINES  
 SYNCOM APOGEE ENGINES  
 T-34 ENGINE  
 T-38 ENGINE  
 T-53 ENGINE  
 T-55 ENGINE  
 T-56 ENGINE  
 T-58 ENGINE  
 T-63 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-76 ENGINE  
 T-78 ENGINE  
 T-58-GE-8B ENGINE  
 TE-289 ENGINE  
 TE-385 ENGINE  
 TF-30 ENGINE  
 TF-106 ENGINE  
 TORPEDO ENGINES  
 TU-121 ENGINE  
 TU-122 ENGINE  
 TURBINE ENGINES  
 TURBOPAN ENGINES  
 TURBOJET ENGINES  
 TURBOPROP ENGINES  
 TURBORAMJET ENGINES  
 TURBOROCKET ENGINES  
 TWO STAGE PLASMA ENGINES  
 TX-77 ENGINE  
 TX-135 ENGINE  
 TX-354 ENGINE  
 ULLAGE ROCKET ENGINES  
 VERNIER ENGINES  
 WANKEL ENGINES  
 X-258-A1 ENGINE  
 X-258-B1 ENGINE  
 X-235 ENGINE  
 X-248 ENGINE  
 X-254 ENGINE  
 X-259 ENGINE  
 X-405 ENGINE  
 X-258 ENGINES  
 XLR-81-BA-13 ENGINE  
 XLR-58 ENGINE  
 XLR-99 ENGINE  
 XM-33 ENGINE  
 YLR-91-AJ-1 ENGINE  
 YLR-115 ENGINE  
 YLR-101-NA-13 ENGINE  
 YLR-101-NA-15 ENGINE  
 RT AUXILIARY PROPULSION  
 CARBURETORS  
 COMBUSTION CHAMBERS  
 DISPLACEMENT  
 ENERGY CONVERSION EFFICIENCY  
 ENGINE STARTERS  
 ENGINE TESTING LABORATORIES  
 EXHAUST SYSTEMS  
 FUEL CONSUMPTION  
 FUEL SYSTEMS  
 HEAT SOURCES  
 IGNITION SYSTEMS  
 LUBRICATION  
 MACHINERY  
 MISSILE COMPONENTS  
 #MOTORS  
 POWER PLANTS  
 #PROPULSION  
 SHUTDOWNS  
 SPEED REGULATORS  
 SUPERSONIC COMBUSTION  
 THERMODYNAMIC EFFICIENCY  
 THERMODYNAMICS  
 TURBINES  
 VEHICLES  
 ENGLISH ELECTRIC AIRCRAFT  
 0204 0207  
 BT CAUBERRA AIRCRAFT  
 BT #BAC AIRCRAFT  
 BT AIRCRAFT

# ENGLISH ELECTRIC CANBERRA AIRCRAFT

## ENGLISH ELECTRIC CANBERRA AIRCRAFT USE CANBERRA AIRCRAFT

### ENGLISH LANGUAGE

0702 3402

BT #LANGUAGES

RT #SPEECH

WORDS (LANGUAGE)

### ENGRAVING

0602 0604 1704 2601

RT ETCHING

PRINTING

### ENHANCEMENT

USE AUGMENTATION

### ENLARGING

USE #EXPANSION

### ENRICHMENT

0602 1504 3407

RT BENEFICIATION

CONCENTRATING

PURIFICATION

REFINING

UPGRADING

### ENRICO FERMI ATOMIC POWER PLANT

2203 2204

BT #ELECTRIC POWER PLANTS

#NUCLEAR ELECTRIC POWER GENERATION

NUCLEAR POWER PLANTS

RT BREEDER REACTORS

FAST NUCLEAR REACTORS

LIQUID METAL COOLED REACTORS

POWER PLANTS

### ENSKOG-CHAPMAN THEORY

USE CHAPMAN-ENSKOG THEORY

### ENSTATITE

1804 1806

BT #CHALCOGENIDES

DIOXIDES

IGNEOUS ROCKS

#MAGNESIUM COMPOUNDS

#MINERALS

OXIDES

PERIDOTITE

PYROXENES

ROCKS

SILICATES

#SILICON COMPOUNDS

RT CHONDRULE

SILICON DIOXIDE

### ENSTRON AIRCRAFT

0206

RT F-28 HELICOPTER

RT AIRCRAFT

### ENTHALPY

3304

UP HEAT CONTENT

BT #THERMODYNAMIC PROPERTIES

RT ADIABATIC CONDITIONS

DRYING

ENERGY

ENTROPY

FREE ENERGY

GIBBS FREE ENERGY

GIBBS-HELMHOLTZ EQUATIONS

HEAT

HEAT MEASUREMENT

JOULE-THOMSON EFFECT

MOLLIER DIAGRAM

SPECIFIC HEAT

THERMOCHEMISTRY

THERMODYNAMICS

### ENTHALPY-ENTROPY DIAGRAMS

USE MOLLIER DIAGRAM

### ENTIRE FUNCTIONS

1902

UP INTEGRAL FUNCTIONS

BT #ANALYSIS (MATHEMATICS)

ANALYTIC FUNCTIONS

COMPLEX VARIABLES

#FUNCTIONS (MATHEMATICS)

### ENTOMOLOGY

0402 0404

RT INSECTICIDES

INSECTS

ZOOLOGY

### ENTRAINMENT

1201 1202 1203

RT AERATION

AEROSOLS

BLOWING

COANDA EFFECT

DISPERSING

SPRAYING

## SUSPENDING (MIXING)

### ENTRANCES

1411 2310

RT CURTAINS

DOORS

#INTAKE SYSTEMS

THRESHOLDS

TRANSFER TUNNELS

### ENTRAPMENT

1504 3407

RT #ACCUMULATORS

CONFUSION

ESCAPE (ABANDONMENT)

RADIATION BELTS

TANGLING

TRAPS

### ENTROPY

0703 3304

BT #THERMODYNAMIC PROPERTIES

RT CROCCO METHOD

ENERGY

ENTHALPY

HEAT

MOLLIER DIAGRAM

NONISENTROPICITY

TEPHIGRAMS

THERMOCHEMISTRY

THERMODYNAMICS

### ENTRY

3009 3105 3407

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #ATMOSPHERIC ENTRY

REENTRY

### ENUMERATION

1902 3406 3407

RT COUNTING

LISTS

#NUMBER THEORY

### ENVELOPES

1902

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT COVERINGS

ENCLOSURES

LIMITS (MATHEMATICS)

### ENVIRONMENT MODELS

0501 0504 1107 1108

BT #MODELS

RT ATMOSPHERIC MODELS

EXOBIOLOGY

TEST CHAMBERS

### ENVIRONMENT POLLUTION

0411 0505 1306 1310 2003

NT AIR POLLUTION

WATER POLLUTION

BT #POLLUTION

RT AEROBIOLOGY

AEROSOLS

AIR SAMPLING

EARTH RESOURCES

HUMAN WASTES

METABOLIC WASTES

#POISONS

RADIOACTIVE WASTES

THERMAL POLLUTION

WASTE DISPOSAL

### ENVIRONMENT SIMULATION

0501 0504 1107

NT ACOUSTIC SIMULATION

ALTITUDE SIMULATION

SPACE ENVIRONMENT SIMULATION

THERMAL SIMULATION

WEIGHTLESSNESS SIMULATION

BT #SIMULATION

ATMOSPHERIC ENTRY SIMULATION

ATMOSPHERIC MODELS

ENVIRONMENT SIMULATORS

#ENVIRONMENTAL TESTS

FLIGHT SIMULATION

### ENVIRONMENT SIMULATORS

0501 0504 1107

NT HIGH VACUUM ORBITAL SIMULATOR

LUNAR GRAVITY SIMULATOR

SOLAR SIMULATORS

SPACE SIMULATORS

BT #SIMULATORS

RT ENVIRONMENT SIMULATION

TEST CHAMBERS

## NASA THESAURUS (ALPHABETICAL LISTING)

### ENVIRONMENTAL CHAMBERS

USE TEST CHAMBERS

### ENVIRONMENTAL CONTROL

0504

RT ANTISEPTICS

ARTIFICIAL GRAVITY

#AUTOMATIC CONTROL

BIOSATELLITES

CABIN ATMOSPHERES

CLEAN ROOMS

CONTROL

EMERGENCY LIFE SUSTAINING SYSTEMS

#ENVIRONMENTS

HABITABILITY

MANNNED REENTRY

MANNNED SPACECRAFT

PRESSURIZED CABINS

SPACECRAFT CABIN ATMOSPHERES

SPACECRAFT ENVIRONMENTS

TEMPERATURE CONTROL

TEST CHAMBERS

WEATHER MODIFICATION

WINDSHIELDS

### ENVIRONMENTAL ENGINEERING

0404 2001

RT AEROSPACE SCIENCES

CLIMATOLOGY

COMFORT

ENGINEERING

#ENVIRONMENTS

#HEATING

HUMAN FACTORS ENGINEERING

ILLUMINATING

LIFE SCIENCES

LIFE SUPPORT SYSTEMS

#METEOROLOGY

PHYSICAL SCIENCES

#PHYSIOLOGICAL EFFECTS

#PSYCHOLOGICAL EFFECTS

SHELTERS

TEMPERATURE CONTROL

TEMPERATURE DISTRIBUTION

VENTILATION

WASTE DISPOSAL

### ENVIRONMENTAL INDEX

0404

RT #ENVIRONMENTAL TESTS

PHYSIOLOGICAL TESTS

### ENVIRONMENTAL LABORATORIES

0501 0504 1106 1107

BT #LABORATORIES

#TEST FACILITIES

RT #ENVIRONMENTAL TESTS

HUMAN FACTORS LABORATORIES

TEST CHAMBERS

### ENVIRONMENTAL RESEARCH SATELLITES

3107 3409

UP OCTAHEDRAL RESEARCH SATELLITES

NT ERS 17

ERS 18

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

#SATELLITES

SCIENTIFIC SATELLITES

RT ATLAS AGENA LAUNCH VEHICLES

### ENVIRONMENTAL TEMPERATURE

USE AMBIENT TEMPERATURE

### #ENVIRONMENTAL TESTS

0504 1107 1108 1505

NT COLD WEATHER TESTS

CORROSION TESTS

HIGH TEMPERATURE TESTS

LOW TEMPERATURE TESTS

SALT SPRAY TESTS

UNDERWATER TESTS

RT ASSET PROJECT

ELECTRONIC EQUIPMENT TESTS

ENVIRONMENT SIMULATION

ENVIRONMENTAL INDEX

ENVIRONMENTAL LABORATORIES

MATERIALS TESTS

PHYSIOLOGICAL TESTS

PSYCHOLOGICAL TESTS

SPIN TESTS

TEST CHAMBERS

TESTS

THERMAL VACUUM TESTS

#VIBRATION TESTS

### #ENVIRONMENTS

0408 0502 0504 0505 0506 0507 0508  
2003 3406

NT AEROSPACE ENVIRONMENTS



# NASA THESAURUS (ALPHABETICAL LISTING)

CHROMOSPHERE  
 CISLUNAR SPACE  
 DEEP SPACE  
 EARTH ENVIRONMENT  
 EXTRATERRESTRIAL ENVIRONMENTS  
 FRICTIONLESS ENVIRONMENTS  
 HIGH ALTITUDE ENVIRONMENTS  
 HIGH GRAVITY ENVIRONMENTS  
 HIGH TEMPERATURE ENVIRONMENTS  
 INTERPLANETARY SPACE  
 INTERSTELLAR SPACE  
 JUPITER ATMOSPHERE  
 LOW TEMPERATURE ENVIRONMENTS  
 LUNAR ATMOSPHERES  
 LUNAR ENVIRONMENT  
 MARS ATMOSPHERE  
 MARS ENVIRONMENT  
 PLANETARY ATMOSPHERES  
 PLANETARY ENVIRONMENTS  
 RESEARCH ENVIRONMENTS  
 ROTATING ENVIRONMENTS  
 SOLAR ATMOSPHERE  
 SPACECRAFT ENVIRONMENTS  
 STELLAR ATMOSPHERES  
 THERMAL ENVIRONMENTS  
 ADIABATIC CONDITIONS  
 AIR  
 AIR POLLUTION  
 AMBIENCE  
 ATMOSPHERES  
 COASTAL ECOLOGY  
 #CONTROLLED ATMOSPHERES  
 ECOLOGY  
 #ELECTROMAGNETIC INTERFERENCE  
 ENVIRONMENTAL CONTROL  
 ENVIRONMENTAL ENGINEERING  
 GRAVITATION  
 HABITABILITY  
 HUMAN FACTORS ENGINEERING  
 HUMIDITY  
 LIFE SUPPORT SYSTEMS  
 PERFORMANCE  
 #PHYSIOLOGICAL EFFECTS  
 #PLANTS (BOTANY)  
 #PRESSURE  
 #PSYCHOLOGICAL EFFECTS  
 REGIMES  
 #TEMPERATURE  
 THERMAL POLLUTION  
 VACUUM EFFECTS  
 WEIGHTLESSNESS  
 ENZYME ACTIVITY  
 0403 0404 0405 0408  
 NT FERMENTATION  
 BT #METABOLISM  
 RT DIABETES MELLITUS  
 #DIGESTIVE SYSTEM  
 ENZYMES  
 0403 0404 0405 0408  
 NT  
 ALDOLASE  
 AMYLASE  
 CARBONIC ANHYDRASE  
 CATALASE  
 CHOLINESTERASE  
 COENZYMES  
 GALACTOKINASE  
 HEXOKINASE  
 LYSOZYME  
 NUCLEASE  
 OXIDASE  
 PAPAINE  
 PEPSIN  
 PROTEASE  
 PROTHROMBIN  
 THROMBIN  
 TRYPSIN  
 RT ACTIVATION (BIOLOGY)  
 CATALYSTS  
 ENZYMOLOGY  
 ENZYMOLOGY  
 0403 0405 0406  
 BT BIOCHEMISTRY  
 RT DIGESTING  
 #DIGESTIVE SYSTEM  
 ENZYMES  
 #METABOLISM  
 ROCR (REACTOR)  
 USE EXPERIMENTAL ORGANIC COOLED  
 REACTORS  
 ROGO  
 USE EGO

ROR (RENDEZVOUS)  
 USE EARTH ORBITAL RENDEZVOUS  
 EOSINOPHILS  
 0405 0406  
 BT #ANATOMY  
 BLOOD  
 #BODY FLUIDS  
 CARDIOVASCULAR SYSTEM  
 #CELLS (BIOLOGY)  
 LEUKOCYTES  
 RT CYTOPLASM  
 ROSS  
 3009 3109 3409  
 UF EARTH ORBITING SPACE STATIONS  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ORBITAL SPACE STATIONS  
 #SATELLITES  
 #STATIONS  
 EPE-A  
 USE EXPLORER 12 SATELLITE  
 EPE-B  
 USE EXPLORER 14 SATELLITE  
 EPE-C  
 USE EXPLORER 15 SATELLITE  
 EPE-D  
 USE EXPLORER 26 SATELLITE  
 EPHEMERIDES  
 1901 2103 3001 3405  
 NT PLANET EPHEMERIDES  
 RT ASTRONOMICAL CATALOGS  
 CELESTIAL MECHANICS  
 EPHEMERIS TIME  
 #ORBITS  
 POSITION (LOCATION)  
 EPHEMERIS TIME  
 1406 1901  
 BT #TIME  
 RT EPHEMERIDES  
 UNIVERSAL TIME  
 EPICARDIUM  
 0404 0405  
 BT #ANATOMY  
 CARDIOVASCULAR SYSTEM  
 HEART  
 TISSUES (BIOLOGY)  
 EPICYCLOIDS  
 1902  
 BT ANALYTIC GEOMETRY  
 CURVES (GEOMETRY)  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT CUSPS (MATHEMATICS)  
 EPIDEMIOLOGY  
 0404 0405  
 BT #MEDICAL SCIENCE  
 RT INFECTIOUS DISEASES  
 VACCINES  
 EPIDERMIS  
 0404 0405  
 BT SKIN (ANATOMY)  
 RT CONTACT DERMATITIS  
 EPILEPSY  
 0404 0405 0408 0410  
 BT #DISEASES  
 RT CRAMPS  
 SHAKING  
 EPINEPHRINE  
 0403 0404 0405  
 UF ADRENALINE  
 NT NOREPINEPHRINE  
 BT #DRUGS  
 RT ADRENAL GLAND  
 HEART RATE  
 STIMULANT  
 EPITAXY  
 2601 2603  
 BT CRYSTAL GROWTH  
 #GROWTH  
 RT CRYSTAL LATTICES  
 CRYSTAL STRUCTURE  
 JUNCTION TRANSISTORS  
 EPITHELIUM  
 0404  
 BT SKIN (ANATOMY)  
 TISSUES (BIOLOGY)  
 RT #ANATOMY  
 HISTOLOGY  
 EPOCHS  
 USE TIME MEASUREMENT  
 EPOIDATION  
 0602

# #EQUATIONS OF MOTION

BT #CHEMICAL REACTIONS  
 RT OXIDATION  
 EPOXIDES  
 USE EPOXY COMPOUNDS  
 EPOXY COMPOUNDS  
 0403 1808 1809 1810  
 UF EPOXIDES  
 NT ENDRIN  
 ETHYLENE OXIDE  
 HYOSCINE  
 PROPYLENE OXIDE  
 RT ETHERS  
 EPOXY RESINS  
 0403 1808 1809 1810  
 BT #PLASTICS  
 #RESINS  
 SYNTHETIC RESINS  
 THERMOSETTING RESINS  
 RT ADHESIVES  
 #COATINGS  
 EQUATIONS  
 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UF BALANCE EQUATIONS  
 FORCED VIBRATORY MOTION EQUATIONS  
 RT APPROXIMATION  
 BETHE-SALPETER EQUATION  
 BOLTZMANN TRANSPORT EQUATION  
 BRILLOUIN-WIGNER EQUATION  
 CHAPLYGIN EQUATION  
 CONSERVATION EQUATIONS  
 CONSTITUTIVE EQUATIONS  
 CONTINUITY EQUATION  
 CUBIC EQUATIONS  
 DIFFERENCE EQUATIONS  
 DIFFERENTIAL EQUATIONS  
 DIOPHANTINE EQUATION  
 DIRAC EQUATION  
 DONNELL EQUATIONS  
 EIKONAL EQUATION  
 EINSTEIN EQUATIONS  
 #EQUATIONS OF MOTION  
 EQUATIONS OF STATE  
 EQUILIBRIUM EQUATIONS  
 EULER-LAGRANGE EQUATION  
 FADDEEV EQUATIONS  
 PICKS EQUATION  
 FLOW EQUATIONS  
 FOKKER-PLANCK EQUATION  
 GIBBS ADSORPTION EQUATION  
 GIBBS-HELMHOLTZ EQUATIONS  
 HAMILTON-JACOBI EQUATION  
 HYDRODYNAMIC EQUATIONS  
 IDENTITIES  
 INHOUR EQUATION  
 INTEGRAL EQUATIONS  
 LANDAU-GINZBURG EQUATIONS  
 LAPLACE EQUATION  
 LINEAR EQUATIONS  
 LINEARIZATION  
 MACROSCOPIC EQUATIONS  
 MAXWELL EQUATION  
 NAVIER-STOKES EQUATION  
 NONHOLONOMIC EQUATIONS  
 NONLINEAR EQUATIONS  
 POLYNOMIALS  
 QUADRATIC EQUATIONS  
 QUARTIC EQUATIONS  
 RAYLEIGH EQUATIONS  
 ROOTS OF EQUATIONS  
 SAHA EQUATIONS  
 SEMIEMPIRICAL EQUATIONS  
 SIMULTANEOUS EQUATIONS  
 STOKES-BELTRAMI EQUATION  
 THERMODYNAMICS  
 #EQUATIONS OF MOTION  
 1901 1902 1904 2311  
 UF MOTION EQUATIONS  
 NT EULER EQUATIONS OF MOTION  
 HELMHOLTZ VORTICITY EQUATION  
 HYDRODYNAMIC EQUATIONS  
 KINEMATIC EQUATIONS  
 KINETIC EQUATIONS  
 NAVIER-STOKES EQUATION  
 REYNOLDS EQUATION  
 RT AUTONOMY  
 BETHE-SALPETER EQUATION  
 CELESTIAL MECHANICS  
 #CLASSICAL MECHANICS  
 CONTINUITY EQUATION

## EQUATIONS OF STATE

CONTROL MOMENT GYROSCOPES  
DYNAMICS  
EINSTEIN EQUATIONS  
EQUATIONS  
EQUILIBRIUM EQUATIONS  
HAMILTON-JACOBI EQUATION  
INERTIA PRINCIPLE  
KINEMATICS  
MACH INERTIA PRINCIPLE  
MOMENTS OF INERTIA  
MOTION AFTEREFFECTS  
SPINNING UNGUIDED ROCKET TRAJECTORY  
#STABILITY  
SYSTEMS STABILITY  
#TRAJECTORIES  
TRAJECTORY ANALYSIS  
VARIABLE MASS SYSTEMS  
VON ZEIPPEL METHOD

## EQUATIONS OF STATE

0602 2308 2311 2401 3304  
UF STATE EQUATIONS  
NT HUGONOT EQUATION OF STATE  
RT ADBIATIC EQUATIONS  
BBGKY HIERARCHY  
COMPRESSIBILITY  
CONTINUITY EQUATION  
EQUATIONS  
EQUILIBRIUM EQUATIONS  
IDEAL FLUIDS  
IDEAL GAS  
#KINETIC THEORY  
MOLLIER DIAGRAM  
REAL GASES  
THERMODYNAMICS

## EQUATORIAL ELECTROJET

1302 2304  
BT ATMOSPHERIC ELECTRICITY  
#ELECTRIC CURRENT  
#ELECTRICITY  
ELECTROJETS  
IONOSPHERIC CURRENTS  
RT AURORAL ELECTROJETS  
EQUATORIAL ORBITS  
1904 3006  
NT STATIONARY ORBITS  
BT #ORBITS  
RT CIRCULAR ORBITS  
EARTH ORBITS  
ELLIPTICAL ORBITS  
LUNAR ORBITS  
ORBITAL MECHANICS  
PLANETARY ORBITS  
POLAR ORBITS  
SATELLITE ORBITS  
SPACECRAFT ORBITS  
TWENTY-FOUR HOUR ORBITS

## EQUATORS

1305 1902  
BT MAGNETIC EQUATOR  
RT #COORDINATES  
ROTATING SPHERES  
TRANSEQUATORIAL PROPAGATION

## EQUILIBRIUM

0101 0603 1202 2311 2406 3304  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF VIRTUAL WORK  
RT ACID BASE EQUILIBRIUM  
BALANCE  
BALANCING  
BODY SWAY TEST  
CHEMICAL EQUILIBRIUM  
#DIFFUSION  
DIFFUSION COEFFICIENT  
#DYNAMIC CHARACTERISTICS  
EQUILIBRIUM EQUATIONS  
HEAT OF DISSOCIATION  
HOMEOSTASIS  
ISOSTASY  
LIQUID-VAPOR EQUILIBRIUM  
#LOADS (FORCES)  
MAXWELL-MOHR METHOD  
NONEQUILIBRIUM CONDITIONS  
ONISAGER RELATIONSHIP  
RELAXATION (MECHANICS)  
RELAXATION TIME  
#STABILITY  
STABILIZATION  
#STATICS  
STEADY STATE  
SYSTEMS STABILITY

THERMODYNAMIC EQUILIBRIUM  
#THERMODYNAMIC PROPERTIES  
THERMODYNAMICS  
TRANSITION POINTS  
UNSTEADY STATE  
VARIABILITY  
WATER BALANCE  
EQUILIBRIUM DIAGRAMS  
USE PHASE DIAGRAMS  
EQUILIBRIUM EQUATIONS  
1902  
RT #ANALYSIS (MATHEMATICS)  
EQUATIONS  
#EQUATIONS OF MOTION  
EQUATIONS OF STATE  
EQUILIBRIUM

## EQUILIBRIUM FLOW

1202 1203  
UF STEADY STATE FLOW  
NT FROZEN EQUILIBRIUM FLOW  
SHIFTING EQUILIBRIUM FLOW  
BT #FLUID FLOW  
GAS FLOW  
RT EYRING THEORY  
HEAT TRANSMISSION  
NONEQUILIBRIUM FLOW  
QUASI-STEADY STATES  
STEADY FLOW

## EQUILIBRIUM METHODS

3203  
(LIMITED TO STRUCTURAL ANALYSIS)  
BT #STRUCTURAL ANALYSIS  
RT MATRIX METHODS  
VARIATIONAL PRINCIPLES

## EQUINOXES

1901  
RT SEASONS  
SOLAR POSITION  
SOLSTICES  
WINTER

## EQUIPARTITION THEOREM

1905 2403 3304  
UF ENERGY EQUIPARTITION  
RT DEGREES OF FREEDOM  
ENERGY DISTRIBUTION  
KINETIC ENERGY  
SPECIFIC HEAT

## EQUIPMENT

1406 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF APPARATUS  
RT ABORT APPARATUS  
ABSORBERS (EQUIPMENT)  
AIR CONDITIONING EQUIPMENT  
AIRBORNE EQUIPMENT  
AIRPORT SURFACE DETECTION EQUIPMENT  
AUDIO EQUIPMENT  
AUTOMATIC TEST EQUIPMENT  
AUXILIARY EQUIPMENT (COMPUTERS)  
BEDDING EQUIPMENT  
BOMBING EQUIPMENT  
BREATHING APPARATUS  
CRYOGENIC EQUIPMENT  
#DATA PROCESSING EQUIPMENT  
DISTILLATION EQUIPMENT  
ELECTROMECHANICAL DEVICES  
#ELECTRONIC EQUIPMENT  
GROUND SUPPORT EQUIPMENT  
#HANDLING EQUIPMENT  
HARDWARE  
#HEATING EQUIPMENT  
HYDRAULIC EQUIPMENT  
LABORATORY EQUIPMENT  
#LIGHTING EQUIPMENT  
MECHANICAL DEVICES  
#MEDICAL EQUIPMENT  
MINIATURE ELECTRONIC EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT  
PNEUMATIC EQUIPMENT  
PORTABLE EQUIPMENT  
#RADAR EQUIPMENT  
RIGGING  
SAFETY DEVICES  
SELF ERECTING DEVICES  
SERVICE LIFE  
SURVIVAL EQUIPMENT  
TELEVISION EQUIPMENT  
WIND TUNNEL APPARATUS  
X RAY APPARATUS

## NASA TREASURY (ALPHABETICAL LISTING)

EQUIPMENT SPECIFICATIONS  
1505 3404 3406 3408  
BT SPECIFICATIONS  
RT AIRCRAFT PRODUCTION  
DESIGN  
MAINTENANCE  
PROCUREMENT

## EQUIPOTENTIALS

2304 2308 2311  
BT #FLUID FLOW  
POTENTIAL FLOW  
RT FLOW GRAPHS  
FLOW NETS

## EQUIVALENCE

1902  
BT #MATHEMATICAL LOGIC  
SET THEORY  
RT PARITY  
PARTITIONS (MATHEMATICS)

## EQUIVALENT CIRCUITS

0902  
BT #CIRCUITS  
RT NETWORK ANALYSIS  
NETWORK SYNTHESIS

## ER-134 AIRCRAFT

0201 0204 1106  
UF BRISTOL ER-134 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT

## ERBIUM

0603 1703  
NT ERBIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS

## ERBIUM ALLOYS

1701  
BT #ALLOYS  
RARE EARTH ALLOYS  
ERBIUM COMPOUNDS  
0603 1804  
BT #RARE EARTH COMPOUNDS  
RT METAL COMPOUNDS

## ERBIUM ISOTOPES

2406  
UF ERBIUM 169  
ERBIUM 171  
BT #CHEMICAL ELEMENTS  
ERBIUM  
ISOTOPES  
NUCLIDES  
RARE EARTH ELEMENTS

## ERBIUM 169

USE ERBIUM ISOTOPES  
ERBIUM 171  
USE ERBIUM ISOTOPES

## ERRECTION

USE CONSTRUCTION

## ERGODIC PROCESS

1902 3304  
RT INFORMATION THEORY  
PROBABILITY THEORY  
#STOCHASTIC PROCESSES  
THERMODYNAMICS

## ERGOMETERS

1406 2308 2311  
BT #MEASURING INSTRUMENTS  
RT DYNAMOMETERS

## ERGONOMICS

USE HUMAN FACTORS ENGINEERING

## ERGOTAMINE

0403 0408 1808  
BT ALKALOIDS  
#AMINES  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS

## EROS PROJECT

USE EXPERIMENTAL REFLECTOR ORBITAL  
SHOT PROJ

## EROSION

0411 1306 1503 3407  
UF MATERIALS EROSION  
SURFACE EROSION  
NT WATER EROSION  
RT ABLATION  
ABRASION  
CAVITATION FLOW  
CORROSION  
DEGRADATION  
DETERIORATION  
ETCHING  
FRETTING  
HYDROGEOLOGY

# NASA THESAURUS (ALPHABETICAL LISTING)

IMPINGEMENT  
METAL SURFACES  
METAL-WATER REACTIONS  
PITTING  
PLATEAUS  
RAIN IMPACT DAMAGE  
RIVERS  
SOIL SCIENCE  
SPARK MACHINING  
SURFACE REACTIONS  
VALLEYS  
WAVE RESISTANCE  
WEAR  
WEAR TESTS  
WEATHERING  
WIND EFFECTS  
**ERROR ANALYSIS**  
1902 1903  
BT NUMERICAL ANALYSIS  
RT APPLICATIONS OF MATHEMATICS  
CENSORED DATA (MATHEMATICS)  
PROBABILITY THEORY  
RANGE ERRORS  
RAYLEIGH DISTRIBUTION  
ROOT-MEAN-SQUARE ERRORS  
**ERROR BAND**  
USE ACCURACY  
**ERROR CORRECTING DEVICES**  
0701 0801 1406  
RT BCH CODES  
CORRECTION  
DEVICES  
ERROR DETECTION CODES  
INSTRUMENT COMPENSATION  
REDDUNDANCY ENCODING  
**ERROR DETECTION CODES**  
0503 0702 0703 0802  
RT CODES  
CODING  
#COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
DIGITAL TECHNIQUES  
ERROR CORRECTING DEVICES  
INFORMATION THEORY  
MACHINE ORIENTED LANGUAGES  
PARITY  
PROVING  
QUALITY CONTROL  
REDDUNDANCY  
REDDUNDANCY ENCODING  
**ERROR FUNCTIONS**  
1901 1902 1905  
BT #FUNCTIONS (MATHEMATICS)  
RT STATISTICAL DISTRIBUTIONS  
**ERROR SIGNALS**  
0705 0902  
RT COMPARATORS  
COMPENSATORS  
DIFFERENTIAL AMPLIFIERS  
DISCRIMINATORS  
ERRORS  
PHASE ERROR  
POSITION ERRORS  
RANGE ERRORS  
SIGNAL MIXING  
SIGNALS  
SLEWING  
**ERRORS**  
0802 1003 1902 3406  
UP INVALIDITY  
OVERESTIMATION  
NT INSTRUMENT ERRORS  
PHASE ERROR  
PILOT ERROR  
POSITION ERRORS  
RANDOM ERRORS  
RANGE ERRORS  
ROOT-MEAN-SQUARE ERRORS  
TRUNCATION ERRORS  
VELOCITY ERRORS  
RT ACCURACY  
BIAS  
COMPENSATION  
CONFIDENCE  
CONSISTENCY  
CORRECTION  
DRIPT (INSTRUMENTATION)  
#DYNAMIC CHARACTERISTICS  
ERROR SIGNALS  
HYSTERESIS  
LINEARITY  
MALFUNCTIONS

MEDIAN (STATISTICS)  
OPTICAL CORRECTION PROCEDURE  
PRECISION  
QUALITY CONTROL  
#RANGE (EXTREMES)  
RELIABILITY  
#RESOLUTION  
RESPONSE BIAS  
SCALING  
TESTS  
TOLERANCES (MECHANICS)  
**ERS 17**  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ENVIRONMENTAL RESEARCH SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
RT ATLAS AGENA LAUNCH VEHICLES  
**ERS 18**  
3107 3409  
BT ARTIFICIAL SATELLITES  
ATLAS AGENA LAUNCH VEHICLES  
EARTH SATELLITES  
ENVIRONMENTAL RESEARCH SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
**ERYTHROCYTES**  
0404 0406  
UP RED BLOOD CELLS  
NT RETICULOCTYES  
BT #ANATOMY  
BLOOD  
#BODY FLUIDS  
CARDIOVASCULAR SYSTEM  
#CELLS (BIOLOGY)  
RT BONE MARROW  
CARBOXYHEMOGLOBIN  
CORPUSCLES  
HEMATOCRIT RATIO  
HEMOGLOBIN  
LEUKOCYTES  
OXYHEMOGLOBIN  
**ESAKI DIODES**  
USE TUNNEL DIODES  
**ESCALATORS**  
1504  
RT ELEVATORS (LIFTS)  
LIFTS  
STAIRWAYS  
**ESCAPE**  
3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ESCAPE (ABANDONMENT)  
LEAKAGE  
**ESCAPE (ABANDONMENT)**  
3407  
RT BAILOUT  
EJECTION  
EJECTION TRAINING  
ENTRAPMENT  
ESCAPE  
ESCAPE ROCKETS  
ESCAPE SYSTEMS  
JETTISON SYSTEMS  
JETTISONING  
PARACHUTE DESCENT  
**ESCAPE CAPSULES**  
0203 0507 0508 3104  
BT SAFETY DEVICES  
#SPACE CAPSULES  
RT ABORT APPARATUS  
ABORTED MISSIONS  
EJECTION SEATS  
EMERGENCY LIFE SUSTAINING SYSTEMS  
ESCAPE ROCKETS  
ESCAPE SYSTEMS  
HIGH ALTITUDE ENVIRONMENTS  
LAUNCH ESCAPE SYSTEMS  
LUNAR ESCAPE DEVICES  
PRESSURIZED CABINS  
**ESCAPE ROCKETS**  
0507 0508 3104 3106  
BT SAFETY DEVICES  
RT ABORT APPARATUS  
ABORTED MISSIONS  
ESCAPE (ABANDONMENT)  
ESCAPE CAPSULES  
ESCAPE SYSTEMS  
LAUNCH ESCAPE SYSTEMS

**ESSA 2 SATELLITE**  
LUNAR ESCAPE DEVICES  
ROCKETS  
SPACECRAFT  
**ESCAPE SYSTEMS**  
3104  
NT LAUNCH ESCAPE SYSTEMS  
RT BAILOUT  
EJECTION  
ESCAPE (ABANDONMENT)  
ESCAPE CAPSULES  
ESCAPE ROCKETS  
JETTISON SYSTEMS  
SAFETY FACTORS  
SYSTEMS  
**ESCAPE VELOCITY**  
2308 2311 2401 2403 3006  
UP PARABOLIC VELOCITY  
BT #RATES (PER TIME)  
VELOCITY  
RT HIGH SPEED  
HYPERBOLIC TRAJECTORIES  
HYPERVELOCITY  
ORBITAL VELOCITY  
PLANETARY GRAVITATION  
SCHWARZSCHILD METRIC  
VELOCITY ERRORS  
**ESCHERICHIA**  
0404 0407 0409  
BT BACTERIA  
#MICROORGANISMS  
#PLANTS (BOTANY)  
**ESG (GYROSCOPES)**  
USE ELECTROSTATIC GYROSCOPES  
**ESKIMOS**  
3402 3403  
RT ANTHROPOLOGY  
CULTURE (SOCIAL SCIENCES)  
**ESOPHAGUS**  
0404 0405  
BT #ANATOMY  
#DIGESTIVE SYSTEM  
ORGANS  
#VISCERA  
**ESRO 1 SATELLITE**  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESRO SATELLITES  
EUROPEAN SPACE RESEARCH  
ORGANIZATION SAT  
#SATELLITES  
RT ESRO 2 SATELLITE  
EUROPEAN SPACE PROGRAMS  
**ESRO 2 SATELLITE**  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESRO SATELLITES  
EUROPEAN SPACE RESEARCH  
ORGANIZATION SAT  
#SATELLITES  
RT ESRO 1 SATELLITE  
EUROPEAN SPACE PROGRAMS  
**ESRO SATELLITES**  
3107 3409  
NT AZUR SATELLITE  
ESRO 1 SATELLITE  
ESRO 2 SATELLITE  
EOS A SATELLITE  
EOS B SATELLITE  
EOS SATELLITES  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
RT EUROPEAN SPACE PROGRAMS  
INTERNATIONAL COOPERATION  
**ESSA 1 SATELLITE**  
2004 3107  
UP OT-3  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESSA SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
**ESSA 2 SATELLITE**  
2004 3107  
UP OT-2  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESSA SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES

# ESSA 3 SATELLITE

RT DELTA LAUNCH VEHICLE  
 ESSA 3 SATELLITE  
 2004 3107  
 UF TOS-A  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA 4 SATELLITE  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA 5 SATELLITE  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA 6 SATELLITE  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA 7 SATELLITE  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA 8 SATELLITE  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA 9 SATELLITE  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ESSA SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 ESSA SATELLITES  
 2004 3107  
 NT ESSA 1 SATELLITE  
 ESSA 2 SATELLITE  
 ESSA 3 SATELLITE  
 ESSA 4 SATELLITE  
 ESSA 5 SATELLITE  
 ESSA 6 SATELLITE  
 ESSA 7 SATELLITE  
 ESSA 8 SATELLITE  
 ESSA 9 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT CLOUD PHOTOGRAPHY  
 NIMBUS SATELLITES  
 SATELLITE OBSERVATION  
 TIROS SATELLITES  
 #ESTERS  
 0403 1808  
 NT ACRYLATES  
 ALKYLATES  
 ALUMINUM ETHOXIDE  
 ASPARTATES  
 BARIUM STEARATES  
 CARBAMATES (TRADENAME)  
 CARBOXYLATES  
 CELLULOSE NITRATE  
 CHLOROPORPHATE  
 COBALT ACETATES  
 CYANURATES  
 DIISOCYANATES  
 FULMINATES

GLUTAMATES  
 GLYCERIDES  
 HYDRAZINE NITROFORM  
 ISOCYANATES  
 ISOPROPYL NITRATE  
 LACTATES  
 LEAD ACETATES  
 LEXAN (TRADEMARK)  
 MALEATES  
 NEPHROMATE  
 NITRATE ESTERS  
 NITROFORMS  
 NITROGLYCERIN  
 NITROSYL TRIFLUOROACETATE  
 OCTOATES  
 ORGANIC NITRATES  
 PETN  
 PHTHALATES  
 POLYCARBONATES  
 POLYESTERS  
 POLYETHYLENE TEREPHTHALATE  
 PROPYL NITRATE  
 SODIUM CHLORODIFLUOROACETATES  
 SODIUM SALICYLATES  
 STEARATES  
 TRIACETIN  
 URETHANES  
 ACETATES  
 #ALIPHATIC COMPOUNDS  
 CYANATES  
 HYDRAZINE NITROFORM  
 LIPIDS  
 NITROFORMS  
 PLASTICIZERS  
 SALICYLATES  
 SKYDROL (TRADEMARK)  
 ESTIMATES  
 1902 3406  
 NT COST ESTIMATES  
 RT ALLOCATIONS  
 COMPARISON  
 CONFIDENCE LIMITS  
 CONTINGENCY  
 CONTRACTS  
 ESTIMATING  
 EVALUATION  
 #FORECASTING  
 MANAGEMENT METHODS  
 MANAGEMENT PLANNING  
 #PREDICTIONS  
 PRODUCTION MANAGEMENT  
 PROJECT PLANNING  
 QUALITY CONTROL  
 RELIABILITY  
 RESERVES  
 RISK  
 #STATISTICAL ANALYSIS  
 STATISTICAL TESTS  
 STATISTICS  
 SUBCONTRACTS  
 VALUE  
 ESTIMATING  
 1902 3406  
 UP OVERESTIMATION  
 NT ORBITAL POSITION ESTIMATION  
 RT BUDGETING  
 CONTRACTS  
 COSTS  
 COUNTING  
 CRITICAL PATH METHOD  
 DESIGN  
 ESTIMATES  
 ESTIMATORS  
 EVALUATION  
 FEASIBILITY  
 #FORECASTING  
 MEASUREMENT  
 MISSION PLANNING  
 PROJECTS  
 QUALITY CONTROL  
 RESERVES  
 RISK  
 SAMPLING  
 STANDARD DEVIATION  
 #STATISTICAL ANALYSIS  
 STATISTICAL TESTS  
 STATISTICS  
 TECHNOLOGICAL FORECASTING  
 VALUE  
 ESTIMATORS  
 1902 3406  
 (USE OF A MORE SPECIFIC TERM IS

# NASA THESAURUS (ALPHABETICAL LISTING)

RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CORRELATION  
 COST ESTIMATES  
 ESTIMATING  
 PARAMETERIZATION  
 #PERSONNEL  
 ESTROGENS  
 0403 0404 0405 0408  
 BT ENDOCRINE SECRETIONS  
 HORMONES  
 #SECRETIONS  
 RT ENDOCRINE GLANDS  
 SEX GLANDS  
 ESTUARIES  
 1305 1306 1310  
 RT COASTS  
 GEOGRAPHY  
 OCEANOGRAPHY  
 RIVERS  
 TIDES  
 ETA-MESONS  
 2403 2405  
 BT BOSONS  
 ELEMENTARY PARTICLES  
 FERMIIONS  
 MESONS  
 NUCLEAR PARTICLES  
 #PARTICLES  
 RT CHARGED PARTICLES  
 ETCHANTS  
 0602 0604 1704 2601  
 RT CORROSION  
 ETCHING  
 ETCHING  
 0602 0604 1704 2601  
 RT CORROSION  
 ENGRAVING  
 EROSION  
 ETCHANTS  
 METALLOGRAPHY  
 PITTING  
 ETHANE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 RT HYDROCARBON FUELS  
 ETHERS  
 0403 1808  
 NT ACETALS  
 ANISOLE  
 DIETHYL ETHER  
 GALLAMINE TRIETHIODIDE  
 POLYPHENYL ETHER  
 RT ANESTHETICS  
 #DRUGS  
 EPOXY COMPOUNDS  
 ETHOXY ETHYLENE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 ETHYL ALCOHOL  
 0403 1808  
 BT ALCOHOLS  
 #ALIPHATIC COMPOUNDS  
 #HYDROXYL COMPOUNDS  
 RT #CARBOHYDRATES  
 ETHYL COMPOUNDS  
 1808  
 RT TRIETHYL COMPOUNDS  
 ETHYLENE  
 0403 1808  
 NT VINYLIDENE  
 BT #ALIPHATIC COMPOUNDS  
 ALKENES  
 #HYDROCARBONS  
 RT HYDROCARBON FUELS  
 POLYETHYLENES  
 #ETHYLENE COMPOUNDS  
 0403 1808  
 NT CHLOROETHYLENE  
 ETHYLENE DIHYDRAZINE  
 ETHYLENEDIAMINE  
 ETHYLENEDIAMINETETRAACETIC ACIDS  
 VERSENE  
 ETHYLENE DIHYDRAZINE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #ETHYLENE COMPOUNDS  
 HYDRAZINES  
 ETHYLENE OXIDE  
 0403 1808

# NASA THESAURUS (ALPHABETICAL LISTING)

BT EPOXY COMPOUNDS  
ETHYLENEDIAMINE  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
DIAMINES  
#ETHYLENE COMPOUNDS  
ETHYLENEDIAMINETETRAACETIC ACIDS  
0403 1808  
UP EDTA  
NT VERSENE  
BT ACETIC ACID  
#ACIDS  
#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
#ETHYLENE COMPOUNDS  
#ORGANIC COMPOUNDS  
RT ACETATES  
DETERGENTS  
ETIOLOGY  
0405 0410  
RT CASE HISTORIES  
ETR (REACTORS)  
USE ENGINEERING TEST REACTORS  
ETTINGSHAUSEN COOLERS  
USE ETTINGSHAUSEN EFFECT  
THERMOELECTRIC COOLING  
ETTINGSHAUSEN EFFECT  
1704 2304 2307 2602 2603 3303 3304  
UP ETTINGSHAUSEN COOLERS  
RT COOLING SYSTEMS  
EFFECTS  
TEMPERATURE EFFECTS  
THERMOELECTRIC COOLING  
THERMOELECTRICITY  
THERMOMAGNETIC COOLING  
THERMOMAGNETIC EFFECTS  
EUCLIDEAN GEOMETRY  
1902  
UP EUCLIDEAN SPACE  
NT ANALYTIC GEOMETRY  
ANGLES (GEOMETRY)  
BRAGG ANGLE  
BREWSTER ANGLE  
CARTESIAN COORDINATES  
CATENARIES  
CHORDS (GEOMETRY)  
CIRCLES (GEOMETRY)  
CIRCUMFERENCES  
CONICS  
CUBES (MATHEMATICS)  
CYCLOIDS  
DESCRIPTIVE GEOMETRY  
ELLIPSES  
EPICYCLOIDS  
GOMPERTZ CURVES  
GREAT CIRCLES  
HEXAGONS  
HYPERBOLAS  
ICOSAHEDRONS  
INFLECTION POINTS  
LINES (GEOMETRY)  
LOCI  
MERCATOR PROJECTION  
OBLATE SPHEROIDS  
OCTAHEDRONS  
PARABOLAS  
PARALLELEPIPEDS  
PARALLELOGRAMS  
POINTS (MATHEMATICS)  
POLYGONS  
POLYHEDRONS  
PROJECTIVE GEOMETRY  
PROLATE SPHEROIDS  
PYRAMIDS  
QUADRANTS  
RADIUS  
RECTANGLES  
RHOMBOHEDRONS  
S CURVES  
SPHEROIDS  
SQUARES (MATHEMATICS)  
TANGENTS  
TETRAGONS  
TETRAHEDRONS  
TORUSES  
TRAPEZOIDS  
TRIANGLES  
TRIGONOMETRY  
BT #GEOMETRY  
BT #COORDINATES  
CURVES (GEOMETRY)

PHASE-SPACE INTEGRAL  
POLYTOPES  
RIEMANN MANIFOLD  
SPHERES  
EUCLIDEAN SPACE  
USE EUCLIDEAN GEOMETRY  
EUDIMETERS  
0601 0904 1406  
BT #MEASURING INSTRUMENTS  
RT GAS MIXTURES  
SPARK IGNITION  
EUGLENA  
0404 0407  
BT #PLANTS (BOTANY)  
RT ALGAE  
EULER BUCKLING  
3203 3407  
BT BUCKLING  
RT EULER-LAGRANGE EQUATION  
STRESS ANALYSIS  
EULER-Cauchy EQUATIONS  
1902  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT COMPLEX VARIABLES  
CONFORMAL MAPPING  
VECTOR ANALYSIS  
EULER EQUATIONS OF MOTION  
1202 1204 1902 2308  
BT #EQUATIONS OF MOTION  
RT HYDRODYNAMICS  
MOMENTS OF INERTIA  
RIGID STRUCTURES  
EULER-LAGRANGE EQUATION  
1202 1204 1902 2311  
UP LAGRANGE EQUATIONS OF MOTION  
RT CALCULUS OF VARIATIONS  
CASTIGLIANO VARIATIONAL THEOREM  
#CLASSICAL MECHANICS  
EQUATIONS  
EULER BUCKLING  
EXTREMUM VALUES  
EULER-LAMBERT EQUATION  
1904 3006  
RT ELLIPTICAL ORBITS  
EUROPA 1 LAUNCH VEHICLE  
3103  
BT EUROPA LAUNCH VEHICLES  
#LAUNCH VEHICLES  
EUROPA 2 LAUNCH VEHICLE  
3103  
BT EUROPA LAUNCH VEHICLES  
#LAUNCH VEHICLES  
EUROPA 3 LAUNCH VEHICLE  
3103  
BT EUROPA LAUNCH VEHICLES  
#LAUNCH VEHICLES  
EUROPA 4 LAUNCH VEHICLE  
3103  
BT EUROPA LAUNCH VEHICLES  
#LAUNCH VEHICLES  
EUROPA LAUNCH VEHICLES  
3103  
NT EUROPA 1 LAUNCH VEHICLE  
EUROPA 2 LAUNCH VEHICLE  
EUROPA 3 LAUNCH VEHICLE  
EUROPA 4 LAUNCH VEHICLE  
BT #LAUNCH VEHICLES  
RT ELDO LAUNCH VEHICLE  
EUROPEAN SPACE PROGRAMS  
EUROPE  
1305  
NT YUGOSLAVIA  
BT #CONTINENTS  
RT AUSTRIA  
BELGIUM  
BULGARIA  
CZECHOSLOVAKIA  
DENMARK  
FINLAND  
FRANCE  
GERMANY  
GREECE  
HUNGARY  
ITALY  
NATIONS  
NETHERLANDS  
NORWAY  
POLAND  
PORTUGAL  
ROMANIA

# EUXENITE

SPAIN  
SWEDEN  
SWITZERLAND  
TURKEY  
U.S.S.R.  
YUGOSLAVIA  
EUROPEAN AIRBUS  
0201 0204  
BT #COMMERCIAL AIRCRAFT  
PASSENGER AIRCRAFT  
EUROPEAN SPACE PROGRAMS  
3409  
BT #PROGRAMS  
SPACE PROGRAMS  
RT AZUR SATELLITE  
ESRO 1 SATELLITE  
ESRO 2 SATELLITE  
ESRO SATELLITES  
EUROPA LAUNCH VEHICLES  
EUROPEAN SPACE RESEARCH  
ORGANIZATION SAT  
EUROPEAN 1 SPACECRAFT  
#FOREIGN POLICY  
FRENCH SPACE PROGRAMS  
HEOS SATELLITES  
U.S.S.R. SPACE PROGRAM  
EUROPEAN SPACE RESEARCH ORGANIZATION SAT  
3107 3409  
NT AZUR SATELLITE  
ESRO 1 SATELLITE  
ESRO 2 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT EUROPEAN SPACE PROGRAMS  
EUROPEAN 1 SPACECRAFT  
3110 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT ELDO LAUNCH VEHICLE  
EUROPEAN SPACE PROGRAMS  
EUROPIUM  
0603 1703  
BT EUROPIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS  
EUROPIUM COMPOUNDS  
1703 1704 1804  
BT #RARE EARTH COMPOUNDS  
RT METAL COMPOUNDS  
EUROPIUM ISOTOPES  
0603 1703 1704 2406  
BT EUROPIUM  
ISOTOPES  
NUCLIDES  
RARE EARTH ELEMENTS  
EUSTACHIAN TUBES  
0404 0408  
BT #ANATOMY  
EAR  
SENSE ORGANS  
RT EARDRUMS  
TUBES  
EUTECTIC ALLOYS  
0603 1701 2603 3304  
BT #ALLOYS  
BINARY MIXTURES  
#BINARY SYSTEMS (MATERIALS)  
EUTECTICS  
#MIXTURES  
RT WHISKER COMPOSITES  
EUTECTIC DIAGRAMS  
USE PHASE DIAGRAMS  
EUTECTICS  
0603 1701 2603 3304  
NT EUTECTIC ALLOYS  
BT BINARY MIXTURES  
#BINARY SYSTEMS (MATERIALS)  
#MIXTURES  
RT #ALLOYS  
LIQUID PHASES  
PHASE DIAGRAMS  
SOLID PHASES  
SOLUTIONS  
EUXENITE  
1703 1806  
BT #MINERALS  
BT NIOBATES  
OXIDES  
TITANATES

# EVACUATING

## EVACUATING

0203 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT EVACUATING (TRANSPORTATION)  
EVACUATING (VACUUM)  
EVACUATING (TRANSPORTATION)  
0203  
(CLEARANCE OF PERSONNEL, ANIMALS, OR  
MATERIAL FROM A GIVEN LOCALITY)

RT CASUALTIES  
CIVIL DEFENSE  
EJECTION  
ELIMINATION  
EVACUATING  
HOSPITALS  
MOBILE QUARANTINE FACILITY  
REMOVAL  
#TRANSPORTATION  
UNLOADING

## EVACUATING (VACUUM)

1203 1506  
UP GAS EVACUATING  
RT DRAINAGE  
EJECTION  
ELIMINATION  
EVACUATING  
EXHAUSTING  
GAS POCKETS  
PURGING  
REMOVAL  
SUCTION  
VACUUM  
VACUUM PUMPS  
VENTING  
VENTS

## EVALUATION

0502 3406  
RT ACCELERATED LIFE TESTS  
ACCEPTABILITY  
ANALYZING  
ASSESSMENTS  
CERTIFICATION  
CLASSIFYING  
COMPARISON  
CORRELATION  
COSTS  
CRITERIA  
DISCUSSION  
ECONOMICS  
ESTIMATES  
ESTIMATING  
EXAMINATION  
FIGURE OF MERIT  
#FORECASTING  
INDICATION  
INSPECTION  
#MANAGEMENT  
MEASUREMENT  
NORMALIZING (STATISTICS)  
OBSERVATION  
PERFORMANCE  
PERFORMANCE PREDICTION  
POSITION (TITLE)  
PROVING  
QUALITY  
RANKING  
RATINGS  
REJECTION  
RESERVES  
REVIEWING  
#SELECTION  
STATISTICAL CORRELATION  
TECHNOLOGY ASSESSMENT  
TESTS  
TIMBER IDENTIFICATION  
VALUE

## EVANESCENCE

1202 1203 3408  
RT EVAPORATION  
#SURFACE PROPERTIES  
TRANSPARATION

## EVAPORATION

0602 1802 2003 2311 3304 3407  
RT PROPELLANT EVAPORATION  
TRANSPARATION  
BT #PHASE TRANSFORMATIONS  
VAPORIZING  
RT BOILING  
CONCENTRATING  
CONDENSING

## DEHYDRATION

#DIFFUSION  
DISTILLATION  
DRYING  
EVANESCENCE  
EVAPORATION RATE  
EVAPORATIVE COOLING  
EVAPOROGRAPHY  
FLASHING (VAPORIZING)  
GAS-LIQUID INTERACTIONS  
GAS-METAL INTERACTIONS  
LIQUID-VAPOR INTERFACES  
PERSPIRATION  
RESERVOIRS  
RESPIRATORY SYSTEM  
SEPARATION  
SKIN (ANATOMY)  
SUBLIMATION  
VOLATILITY  
WATER LOSS

## EVAPORATION RATE

0602 3303  
BT #RATES (PER TIME)  
RT EVAPORATION  
HEAT TRANSFER COEFFICIENTS

## EVAPORATIVE COOLING

0101 0202 1504 2003 3303  
NT FILM COOLING  
SWEAT COOLING  
BT #COOLING  
RT COOLING SYSTEMS  
CRYOGENIC FLUID STORAGE  
EVAPORATION  
PROPELLANT EVAPORATION  
SURFACE COOLING

## EVAPORATORS

0602 1504 3303  
BT #HEATING EQUIPMENT  
#SEPARATORS  
VAPORIZERS  
RT AIR CONDITIONING EQUIPMENT  
ATOMIZERS  
CONCENTRATORS  
CONDENSERS (LIQUIFIERS)  
COOLING SYSTEMS  
DRYING APPARATUS  
HEAT EXCHANGERS  
REFRIGERATING MACHINERY

## EVAPOROGRAPHY

0602 1203 1404 1407 2306 2310 2311  
RT EVAPORATION  
IMAGES  
INFRARED RADIATION  
#PHOTOGRAPHY  
VISIBLE RADIATION

## EVASIVE ACTIONS

3401

RT TACTICS  
WARFARE

## EVASIVE SATELLITES

3107 3110 3401  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#MANEUVERABLE SPACECRAFT  
#SATELLITES  
RT #MILITARY SPACECRAFT

## EVECTION

USE LUNAR ORBITS  
ORBIT PERTURBATION  
SOLAR GRAVITATION

## EVEN-EVEN NUCLEI

2401 2405  
BT NUCLEI (NUCLEAR PHYSICS)  
RT NUCLEAR STRUCTURE  
ODD-ODD NUCLEI

## EVENING

1308 3001  
RT DAYTIME  
NIGHT  
SUNSET

## EVENTS

1902 2308 2311  
RT CONSECUTIVE EVENTS  
RT OCCURRENCES  
PROBABILITY DENSITY FUNCTIONS  
PROBABILITY THEORY  
#STATISTICAL ANALYSIS  
STATISTICAL DISTRIBUTIONS  
#STOCHASTIC PROCESSES

## EVOLUTION

0404 0602 1902 3002 3304 3401 3403  
(USE OF A MORE SPECIFIC TERM IS

# NASA THESAURUS (ALPHABETICAL LISTING)

RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT BIOGENY  
#EVOLUTION (DEVELOPMENT)  
EVOLUTION (LIBERATION)  
EXISTENCE

## #EVOLUTION (DEVELOPMENT)

0404 1902 3002 3003  
RT ABOGENESIS  
BIOLOGICAL EVOLUTION  
GALACTIC EVOLUTION  
LUNAR EVOLUTION  
PLANETARY EVOLUTION  
STELLAR EVOLUTION

## RT BIOLOGY

DEVELOPMENT  
EVOLUTION  
EXTINCTION

## #GENETICS

## #GROWTH

## HEREDITY

## INTERSTELLAR EXTINCTION

## EVOLUTION (LIBERATION)

0602 3304 3401

NT GAS EVOLUTION

RT BOILING

DESORPTION

EVOLUTION

OUTGASSING

TRANSPARATION

VAPORIZING

## EWR AIRCRAFT

0201

RT VJ-101 AIRCRAFT

RT AIRCRAFT

## EXACTNESS

USE PRECISION

## EXAMINATION

0401 0405 1108 1406 1505 3406

NT EYE EXAMINATIONS

RT ACCEPTABILITY

ANALYZING

CHARACTERIZATION

CLINICAL MEDICINE

COMPARISON

CONICAL SCANNING

## #DETECTION

DIAGNOSIS

DISCUSSION

EVALUATION

## #EXPLORATION

INSPECTION

#INVESTIGATION

MEASUREMENT

OBSERVATION

PERFORMANCE

PROVING

REVIEWING

## #SCANNING

TESTS

## EICAVATION

1306 1308 1504 3404

UP DITCHING (EXCAVATION)

RT TUNNELING (EXCAVATION)

RT CONSTRUCTION

DITCHING

DRAINAGE

## #EXPLORATION

FOUNDATIONS

MATERIALS HANDLING

MINERAL DEPOSITS

MINING

PITS (EXCAVATIONS)

## EXCHANGERS

1202 1501 1803 3303 3304 3305

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT HEAT EXCHANGERS

## #EXCHANGING

0603 1202 3303 3407

NT CHARGE EXCHANGE

GAS EXCHANGE

ION EXCHANGING

RESONANCE CHARGE EXCHANGE

SPIN EXCHANGE

RT CONVERSION

DEIONIZATION

SEPARATION

SHIFT

TRANSFERRING

# NASA THESAURUS (ALPHABETICAL LISTING)

## \*EXCITATION

2308 2311 2401 2404 2405 2406  
UF EXCITED STATES  
NT ACOUSTIC EXCITATION  
ATOMIC EXCITATIONS  
HARMONIC EXCITATION  
MOLECULAR EXCITATION  
SELF EXCITATION  
WAVE EXCITATION  
RT ACTIVATION  
ACTUATION  
ATOMIC ENERGY LEVELS  
AURORAL IONIZATION  
AURORAL IRRADIATION  
ELECTROMAGNETIC ABSORPTION  
ELECTRON STATES  
ELECTRON TRANSITIONS  
EMISSION  
ENERGY LEVELS  
\*IONIZATION  
\*IRRADIATION  
METASTABLE STATE  
RELAXATION TIME  
ROTONS  
STARTING  
TRANSITION PROBABILITIES  
EXCITED STATES  
USE \*EXCITATION  
EXCITONS  
2401 2403 2602  
BT \*ELEMENTARY EXCITATIONS  
RT CARRIER MOBILITY  
ELECTRICAL INSULATION  
ELECTRONS  
ENERGY BANDS  
HOLES (ELECTRON DEFICIENCIES)  
IONIC CRYSTALS  
LIGHT (VISIBLE RADIATION)  
OPTICAL PROPERTIES  
PHOTOELECTROMAGNETIC EFFECTS  
FLASHONS  
POSITRONIUM  
SEMICONDUCTORS (MATERIALS)  
\*SPECTRA  
SUHL EFFECT  
EXCLUSION  
2402 2403  
RT ELIMINATION  
ISOLATION  
PAULI EXCLUSION PRINCIPLE  
REJECTION  
SEPARATION  
EXCRETION  
0404  
RT EXPULSION  
PECES  
HUMAN WASTES  
PERSPIRATION  
URINE  
EXECUTIVE AIRCRAFT  
USE GENERAL AVIATION AIRCRAFT  
PASSENGER AIRCRAFT  
EXERCISE (PHYSIOLOGY)  
0405 0408 0502  
UF GYMNASTICS  
RT FATIGUE (BIOLOGY)  
PHYSICAL FITNESS  
RUNNING  
SWIMMING  
EXERTION  
USE PHYSICAL WORK  
EXHALATION  
0404 0405  
RT ALVEOLAR AIR  
EXPIRED AIR  
RESPIROMETERS  
EXHAUST DIFFUSERS  
1203 2801 2805 2808  
RT CONICAL NOZZLES  
DIFFUSERS  
EJECTORS  
EXHAUST NOZZLES  
EXHAUST SYSTEMS  
JET NOZZLES  
SUPERSONIC DIFFUSERS  
VANELESS DIFFUSERS  
EXHAUST FLOW SIMULATION  
1107  
NT ATMOSPHERIC ENTRY SIMULATION  
FLIGHT SIMULATION  
BT \*SIMULATION  
RT FLOW DISTRIBUTION

## MATHEMATICAL MODELS

### WIND TUNNELS

EXHAUST GASES  
1203 2801 2805 2808  
UF AIRCRAFT EXHAUST  
EXHAUST JETS  
BT \*GASES  
RT AIR POLLUTION  
BLASTS  
COMBUSTION EFFICIENCY  
COMBUSTION PRODUCTS  
DILUENTS  
EFFLUENTS  
EXHAUST SYSTEMS  
EXHAUST VELOCITY  
EXHAUSTING  
PUMES  
GAS MIXTURES  
JET BLAST EFFECTS  
JET EXHAUST  
NOZZLE FLOW  
ODORS  
\*PROPULSION  
ROCKET EXHAUST  
SMOG  
SMOKE  
SMOKE ABATEMENT  
\*VAPORS  
WASTE DISPOSAL  
\*WASTES  
EXHAUST JETS  
USE EXHAUST GASES  
EXHAUST NOZZLES  
1201 1203 2801 2805 2808  
NT CONVERGENT-DIVERGENT NOZZLES  
PLUG NOZZLES  
SPIKE NOZZLES  
TURBINE EXHAUST NOZZLES  
RT AIR DUCTS  
ANNULAR NOZZLES  
BASE HEATING  
CONICAL NOZZLES  
DIVERGENT NOZZLES  
EJECTORS  
EXHAUST DIFFUSERS  
EXHAUST SYSTEMS  
FLOW  
INLET NOZZLES  
JET ENGINES  
JET NOZZLES  
NOZZLE FLOW  
NOZZLE INSERTS  
NOZZLES  
\*OPENINGS  
OUTLETS  
RENE PROGRAM  
ROCKET ENGINES  
SKIRTS  
EXHAUST SYSTEMS  
0202 2801 2805 2808  
RT AFTERBURNING  
AIR CONDITIONING  
AIR POLLUTION  
BLOWERS  
CHIMNEYS  
CONDENSERS (LIQUIFIERS)  
COOLING SYSTEMS  
DUCTS  
DUST COLLECTORS  
EJECTORS  
ELIMINATION  
\*ENGINES  
EXHAUST DIFFUSERS  
EXHAUST GASES  
EXHAUST NOZZLES  
EXHAUSTING  
FLUES  
FUEL TANK PRESSURIZATION  
\*INTAKE SYSTEMS  
INTERNAL COMBUSTION ENGINES  
MANIFOLDS  
PUPPLERS  
\*OPENINGS  
OUTLETS  
PIPE NOZZLES  
PLENUM CHAMBERS  
PORTS (OPENINGS)  
ROCKET EXHAUST  
SYSTEMS  
TEMPERATURE CONTROL  
VENTILATION  
VENTILATORS

## EXOSPHERE

VENTS  
WASTE DISPOSAL  
EXHAUST VELOCITY  
0101 1202 1203  
BT #RATES (PER TIME)  
VELOCITY  
RT ACOUSTIC VELOCITY  
CRITICAL VELOCITY  
EXHAUST GASES  
EXPULSION  
FLOW VELOCITY  
EXHAUSTING  
1504 1805 3203 3301 3404  
UF OUTFLOW  
RT BLOWING  
BREATHING VIBRATION  
CONSUMPTION  
DECONTAMINATION  
DISCHARGE  
DISPERSING  
DISPOSAL  
DISSIPATION  
EJECTION  
ELIMINATION  
EVACUATING (VACUUM)  
EXHAUST GASES  
EXHAUST SYSTEMS  
RELIEVING  
REMOVAL  
VENTILATION  
VENTING  
EXHAUSTION  
0408 2801 2808 3301  
RT CONSUMPTION  
DEPLETION  
FATIGUE (BIOLOGY)  
EXISTENCE  
0404 1902 3003  
RT COSMOLOGY  
EVOLUTION  
EXISTENCE THEOREMS  
LIFE SPAN  
VALIDITY  
EXISTENCE THEOREMS  
1902  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
\*THEOREMS  
RT EXISTENCE  
PROBLEM SOLVING  
ROOTS OF EQUATIONS  
EXITS (DOORS)  
USE DOORS  
EXOBIOLOGY  
0401 0404  
UF ASTROBIOLOGY  
SPACE BIOLOGY  
RT AEROSPACE ENVIRONMENTS  
APOLLO EXTENSION SYSTEM  
BIOASTRONAUTICS  
CARBONACEOUS METEORITES  
ENVIRONMENT MODELS  
EXTRATERRESTRIAL LIFE  
LIFE SUPPORT SYSTEMS  
LUNAR ENVIRONMENT  
PLANETARY ENVIRONMENTS  
SPACECRAFT CONTAMINATION  
SPACECRAFT ENVIRONMENTS  
SPACECRAFT STERILIZATION  
EXOPHORIA  
USE HETEROPHORIA  
EXOS SOUNDING ROCKET  
3106 3108 3409  
BT MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
SOUNDING ROCKETS  
RT HONEST JOHN ROCKET VEHICLE  
NIKE-AJAX MISSILE  
SOLID PROPELLANT ROCKET ENGINES  
TE-289 ENGINE  
IM-33 ENGINE  
EXOSKELETONS  
0402 0404  
RT TELEOPERATORS  
EXOSPHERE  
1302 1308  
BT #EARTH ATMOSPHERE  
RT HETEROSPHERE  
IONOSPHERE  
MAGNETOSPHERE  
RADIATION BELTS  
THERMOSPHERE

# BIOTHERMIC REACTIONS

## EXOTHERMIC REACTIONS

0602 3303 3304

BT #CHEMICAL REACTIONS

RT #COMBUSTION

ENDOTHERMIC REACTIONS  
INCENDIARY AMMUNITION  
PYROLYSIS

## #EXPANDABLE STRUCTURES

3202 3203

NT BALLOONS

BALLUTES

BEACON EXPLORER A

BEACON SATELLITES

BELLOWS

EXPLORER 22 SATELLITE

GAS BAGS

HIGH ALTITUDE BALLOONS

INFLATABLE GLIDERS

INFLATABLE HYPERSONIC VEHICLES

INFLATABLE SPACECRAFT

INFLATABLE STRUCTURES

METEOROLOGICAL BALLOONS

PARAVULCOONS

ROBIN BALLOONS

SKYHOOK BALLOONS

TETHERED BALLOONS

RT EXPULSION BLADDERS

FOLDING STRUCTURES

ORBITAL ASSEMBLY

#SPACE ERECTABLE STRUCTURES

SPACECRAFT

STRUCTURES

VARIABLE GEOMETRY STRUCTURES

## #EXPANSION

3407

UF ENLARGING

NT GAS EXPANSION

KARHUEN-LOEVE EXPANSION

PRANDTL-MEYER EXPANSION

THERMAL BUCKLING

RT ADIABATIC CONDITIONS

DISTORTION

ELONGATION

EXTENSIONS

INFLATING

RAREFACTION

RELAXATION (MECHANICS)

SWELLING

THERMAL EXPANSION

## EXPANSION WAVES

USE #ELASTIC WAVES

## EXPECTANCY HYPOTHESIS

1902 1905

BT HYPOTHESES

RT MONTE CARLO METHOD

PROBABILITY DENSITY FUNCTIONS

#STATISTICAL ANALYSIS

STATISTICAL DISTRIBUTIONS

## EXPECTATION

1902 1905

RT CONTINGENCY

DECISION THEORY

#FORECASTING

RELIABILITY

## EXPEDITIONS

3004 3007 3406 3409

RT #EXPLORATION

MISSIONS

#SPACE FLIGHT

## EXPELLANTS

0401 0405

RT COUGH

DISCHARGE

EXPULSION

FLUSHING

## EXPERIENCE

0408 0410 0502 3406

RT #EDUCATION

QUALIFICATIONS

UPGRADING

## EXPERIMENTAL BOILING WATER REACTORS

2204 3303 3404

UF EBRW (REACTOR)

BT BOILING WATER REACTORS

LIQUID COOLED REACTORS

#NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

WATER COOLED REACTORS

WATER MODERATED REACTORS

## EXPERIMENTAL BREEDER REACTOR 1

2204 3303 3404

UF EBR-1 REACTOR

BT BREEDER REACTORS

PAST NUCLEAR REACTORS

LIQUID COOLED REACTORS

LIQUID METAL COOLED REACTORS

#NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

## EXPERIMENTAL BREEDER REACTOR 2

2204 3303 3404

UF EBR-2 REACTOR

BT BREEDER REACTORS

PAST NUCLEAR REACTORS

LIQUID COOLED REACTORS

LIQUID METAL COOLED REACTORS

#NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

## EXPERIMENTAL DESIGN

3404 3405

(DESIGN OF EXPERIMENTS EXCLUDES  
PROTOTYPES)

UF DESIGN OF EXPERIMENTS

NT FACTORIAL DESIGN

RT COVARIANCE

DEGREES OF FREEDOM

DESIGN

FACTOR ANALYSIS

#LABORATORIES

MATHEMATICAL MODELS

OPERATIONS RESEARCH

ORTHOGONALITY

QUALITY CONTROL

REGRESSION ANALYSIS

#STATISTICAL ANALYSIS

SYSTEMS ENGINEERING

VARIANCE (STATISTICS)

## EXPERIMENTAL GAS COOLED REACTORS

2204 3303 3404

UF EGCR (REACTOR)

BT GAS COOLED REACTORS

#NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

## EXPERIMENTAL ORGANIC COOLED REACTORS

2202 3303 3404

UF EOOR (REACTOR)

BT LIQUID COOLED REACTORS

#NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

ORGANIC COOLED REACTORS

ORGANIC MODERATED REACTORS

## EXPERIMENTAL REFLECTOR ORBITAL SHOT PROJ

3409

UF EROS PROJECT

## EXPERIMENTATION

3406 3409

RT CRITICAL EXPERIMENTS

#EXPLORATION

#INVESTIGATION

#LABORATORIES

## EXPIRATION

0404

RT BREATHING

DEATH

EXPIRED AIR

EXPULSION

MORTALITY

RESPIRATION

## EXPIRED AIR

0504 0505 0506 0507

BT AIR

RT ALVEOLAR AIR

EXHALATION

EXPIRATION

GAS COMPOSITION

METABOLIC WASTES

REBREATHING

RESPIRATION

## EXPLODING CONDUCTOR CIRCUITS

USE #CIRCUITS

EXPLODING WIRES

## EXPLODING CONDUCTORS

USE EXPLODING WIRES

## EXPLODING WIRES

0902 2302 3302

UF EXPLODING CONDUCTOR CIRCUITS

BT EXPLODING CONDUCTORS

#CONDUCTORS

ELECTRIC WIRE

#WIRE

RT BOOSTERS (EXPLOSIVES)

CAPS (EXPLOSIVES)

DETONATORS

#PLASMA GENERATORS

PRIMERS (EXPLOSIVES)

# NASA THESAURUS (ALPHABETICAL LISTING)

SHOCK WAVES

WIRE BRIDGE CIRCUITS

## EXPLOITATION

1306 1504 1806 3404 3407

RT BENEFICIATION

DEPLETION

DEVELOPMENT

#EXPLORATION

#GEOLOGY

LAND USE

MINES (EXCAVATIONS)

MINING

RESERVES

## #EXPLORATION

1308 3009 3407

UF DISCOVERING

PROSPECTING

NT LUNAR EXPLORATION

OIL EXPLORATION

SPACE EXPLORATION

RT #DETECTION

DRILLING

EXAMINATION

EXCAVATION

EXPEDITIONS

EXPERIMENTATION

EXPLOITATION

#GEOLOGY

#INVESTIGATION

MINES (EXCAVATIONS)

#RESEARCH

RESERVES

SAMPLING

#SPACE FLIGHT

SURVEYS

## EXPLORER S-46

3409 3107

UF S-46 SATELLITE

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER S-55

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

RT SCOUT LAUNCH VEHICLE

X-248 ENGINE

## EXPLORER 1 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER 2 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER 3 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER 4 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER 5 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER 6 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

EXPLORER SATELLITES

#SATELLITES

## EXPLORER 7 SATELLITE

3107 3409

BT ARTIFICIAL SATELLITES

EARTH SATELLITES



NASA THESAURUS (ALPHABETICAL LISTING)

EXPLORER SATELLITES  
#SATELLITES  
EXPLORER 8 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
EXPLORER 9 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 10 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
GEOPHYSICAL SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 11 SATELLITE  
3107 3409  
UF GAMMA RAY ASTRONOMY EXPLORER  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT JUNO 2 LAUNCH VEHICLE  
EXPLORER 12 SATELLITE  
3107 3409  
UF ENERGETIC PARTICLE EXPLORER A  
EPE-A  
S-3 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
GEOPHYSICAL SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 13 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
GEOPHYSICAL SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 14 SATELLITE  
3107 3409  
UF ENERGETIC PARTICLE EXPLORER B  
EPE-B  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 15 SATELLITE  
3107 3409  
UF ENERGETIC PARTICLE EXPLORER C  
EPE-C  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 16 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 17 SATELLITE  
3107 3409  
UF AE-A SATELLITE  
ATMOSPHERE EXPLORER A  
S-6 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 18 SATELLITE  
3107 3409  
UF IMP-A  
INTERPLANETARY EXPLORER  
S-74 SATELLITE

BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#INTERPLANETARY SPACECRAFT  
#SATELLITES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RT DELTA LAUNCH VEHICLE  
EXPLORER 19 SATELLITE  
3107 3409  
UF AD-A SATELLITE  
AIR DENSITY EXPLORER A  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 20 SATELLITE  
3107 3409  
UF IONOSPHERE EXPLORER A  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 21 SATELLITE  
3107 3409  
UF IMP-B  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 22 SATELLITE  
3107 3409  
UF BE B  
BT BEACON EXPLORER B  
BT ARTIFICIAL SATELLITES  
BEACON SATELLITES  
EARTH SATELLITES  
#EXPANDABLE STRUCTURES  
EXPLORER SATELLITES  
INFLATABLE SPACECRAFT  
INFLATABLE STRUCTURES  
NAVIGATION SATELLITES  
PASSIVE SATELLITES  
#SATELLITES  
#SPACE ERECTABLE STRUCTURES  
#UNMANNED SPACECRAFT  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 23 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 24 SATELLITE  
3107 3409  
UF AD/I B  
AD/I SATELLITE  
AIR DENSITY/INJUN EXPLORER B  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 25 SATELLITE  
3107 3409  
UF AD/I B  
AIR DENSITY/INJUN EXPLORER B  
BT ARTIFICIAL SATELLITES  
INJUN EXPLORER  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 26 SATELLITE  
3107 3409  
UF ENERGETIC PARTICLE EXPLORER D  
EPE-D  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 27 SATELLITE  
3107 3409  
UF BE C  
BEACON EXPLORER C  
BT ARTIFICIAL SATELLITES

EXPLORER 36 SATELLITE

EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
BT SCOUT LAUNCH VEHICLE  
EXPLORER 28 SATELLITE  
3107 3409  
UF IMP-C  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 29 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
GEODETIC SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
RT ACTIVE SATELLITES  
ANNA SATELLITES  
CELESTIAL GEODESY  
DELTA LAUNCH VEHICLE  
GEOS 1 SATELLITE  
LARGOS SATELLITE  
PAGROS SATELLITE  
EXPLORER 30 SATELLITE  
3107 3409  
UF SE-A  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT SCOUT LAUNCH VEHICLE  
EXPLORER 31 SATELLITE  
3107 3409  
UF DNE-A SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT THOR AGENA LAUNCH VEHICLE  
EXPLORER 32 SATELLITE  
3107 3409  
UF AE-B SATELLITE  
ATMOSPHERE EXPLORER B  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 33 SATELLITE  
3107 3409  
UF IMP-D  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT DELTA LAUNCH VEHICLE  
EXPLORER 34 SATELLITE  
3107 3409  
UF IMP-F  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT THOR AGENA LAUNCH VEHICLE  
THRUST AUGMENTED DELTA LAUNCH  
VEHICLE  
EXPLORER 35 SATELLITE  
3107 3409  
UF AIMP-E  
IMP-E  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
#SATELLITES  
RT THOR AGENA LAUNCH VEHICLE  
THRUST AUGMENTED DELTA LAUNCH  
VEHICLE  
EXPLORER 36 SATELLITE  
3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
GEODETIC SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
RT ACTIVE SATELLITES  
ANNA SATELLITES  
CELESTIAL GEODESY

# EXPLORER 37 SATELLITE

GEOS 2 SATELLITE  
 LARGOS SATELLITE  
 PAGEOS SATELLITE  
 THOR AGENA LAUNCH VEHICLE  
 EXPLORER 37 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT SCOUT LAUNCH VEHICLE  
 EXPLORER 38 SATELLITE  
 3107 3409  
 UP RAE-1  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 EXPLORER 39 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT SCOUT LAUNCH VEHICLE  
 EXPLORER 40 SATELLITE  
 3107 3409  
 UP INJUN 5 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT SCOUT LAUNCH VEHICLE  
 EXPLORER 41 SATELLITE  
 3107 3409  
 UP INP-C  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 EXPLORER 42 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 SMALL ASTRONOMY SATELLITES  
 EXPLORER 43 SATELLITE  
 3107 3409  
 UP INP-1  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 EXPLORER SATELLITES  
 3107 3409  
 NT EXPLORER S-46 SATELLITE  
 EXPLORER S-55 SATELLITE  
 EXPLORER S-46  
 EXPLORER S-55  
 EXPLORER 1 SATELLITE  
 EXPLORER 2 SATELLITE  
 EXPLORER 3 SATELLITE  
 EXPLORER 4 SATELLITE  
 EXPLORER 5 SATELLITE  
 EXPLORER 6 SATELLITE  
 EXPLORER 7 SATELLITE  
 EXPLORER 8 SATELLITE  
 EXPLORER 9 SATELLITE  
 EXPLORER 10 SATELLITE  
 EXPLORER 11 SATELLITE  
 EXPLORER 12 SATELLITE  
 EXPLORER 13 SATELLITE  
 EXPLORER 14 SATELLITE  
 EXPLORER 15 SATELLITE  
 EXPLORER 16 SATELLITE  
 EXPLORER 17 SATELLITE  
 EXPLORER 18 SATELLITE  
 EXPLORER 19 SATELLITE  
 EXPLORER 20 SATELLITE  
 EXPLORER 21 SATELLITE  
 EXPLORER 22 SATELLITE  
 EXPLORER 23 SATELLITE  
 EXPLORER 24 SATELLITE  
 EXPLORER 25 SATELLITE  
 EXPLORER 26 SATELLITE  
 EXPLORER 27 SATELLITE  
 EXPLORER 28 SATELLITE  
 EXPLORER 29 SATELLITE

## NASA TREASURY (ALPHABETICAL LISTING)

EXPLOSIVE WELDING  
 EXTRUDING  
 SHAPED CHARGES  
 EXPLOSIVE GASES  
 USE FLAMMABLE GASES  
 EXPLOSIVE WELDING  
 1507  
 BT #BONDING  
 PRESSURE WELDING  
 #WELDING  
 RT CLADDING  
 EXPLOSIVE FORMING  
 METAL BONDING  
 METAL JOINTS  
 METAL-METAL BONDING  
 #METAL WORKING  
 EXPLOSIVES  
 3302  
 UP HIGH EXPLOSIVES  
 CELLULOSE NITRATE  
 DYNAMITE  
 HYDRAZINE NITROFORM  
 HYDROGEN AZIDES  
 NITRASOL EXPLOSIVES  
 OCTOL (EXPLOSIVE)  
 PENTOLITE  
 RDX  
 TETRYL  
 TRINITROTOLUENE  
 RT AMMONIUM PICRATES  
 AMMUNITION  
 AZIDES (ORGANIC)  
 BOMBS (ORDNANCE)  
 BURNING RATE  
 CASE BONDED PROPELLANTS  
 CHARGING  
 CHEMICAL EXPLOSIONS  
 CHEMICAL FUELS  
 COMPOSITE PROPELLANTS  
 DETONATORS  
 DOUBLE BASE PROPELLANTS  
 DOUBLE BASE ROCKET PROPELLANTS  
 #EXPLOSIONS  
 FIRES  
 FLAMMABLE GASES  
 FULMINATES  
 GUN PROPELLANTS  
 GUNS (ORDNANCE)  
 HMX  
 NITROGLYCERIN  
 NITROGUANIDINE  
 NITROMETHANE  
 NUCLEAR WEAPONS  
 ORDNANCE  
 PETN  
 PLASTIC PROPELLANTS  
 POTASSIUM PERCHLORATES  
 POWDER (PARTICLES)  
 #PROPELLANTS  
 PYROPHORIC MATERIALS  
 PYROTECHNICS  
 SHAPED CHARGES  
 SODIUM AZIDES  
 TORPEDOES  
 WARHEADS  
 EXPONENTIAL FUNCTIONS  
 1902  
 NT LOGARITHMS  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
 TRANSCENDENTAL FUNCTIONS  
 RT FOURIER ANALYSIS  
 HYPERBOLIC FUNCTIONS  
 ORTHOGONAL FUNCTIONS  
 POISSON DENSITY FUNCTIONS  
 PROBABILITY DENSITY FUNCTIONS  
 #STATISTICAL ANALYSIS  
 WEIBULL DENSITY FUNCTIONS  
 EXPONENTS  
 1902  
 BT #NUMBER THEORY  
 RT ARITHMETIC  
 LOGARITHMS  
 EXPORTS  
 USE INTERNATIONAL TRADE  
 EXPOSURE  
 0404 0508 1407  
 RT BEARING (DIRECTION)  
 COLD TOLERANCE  
 DOSIMETERS  
 #IRRADIATION

EXPLORER 30 SATELLITE  
 EXPLORER 31 SATELLITE  
 EXPLORER 32 SATELLITE  
 EXPLORER 33 SATELLITE  
 EXPLORER 34 SATELLITE  
 EXPLORER 35 SATELLITE  
 EXPLORER 36 SATELLITE  
 EXPLORER 37 SATELLITE  
 EXPLORER 38 SATELLITE  
 EXPLORER 39 SATELLITE  
 EXPLORER 40 SATELLITE  
 EXPLORER 41 SATELLITE  
 EXPLORER 42 SATELLITE  
 EXPLORER 43 SATELLITE  
 MICROMETEOROID EXPLORER SATELLITES  
 OUTER PLANETS EXPLORERS  
 RADIO ASTRONOMY EXPLORER SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT JUNO 1 LAUNCH VEHICLE  
 JUPITER C ROCKET VEHICLE  
 METEOROID DUST CLOUDS  
 MICROMETEOROID  
 SCOUT PROJECT  
 THOR DELTA LAUNCH VEHICLE  
 ZODIACAL DUST  
 #EXPLOSIONS  
 1308 3301 3302 3401  
 NT AERIAL EXPLOSIONS  
 CHEMICAL EXPLOSIONS  
 GAS EXPLOSIONS  
 NUCLEAR EXPLOSIONS  
 THERMONUCLEAR EXPLOSIONS  
 UNDERGROUND EXPLOSIONS  
 UNDERWATER EXPLOSIONS  
 BT ACCIDENTS  
 BLAST LOADS  
 BLASTS  
 #BURSTS  
 #COMBUSTION  
 DETONATION  
 DISCHARGE  
 EXPLOSIVE DECOMPRESSION  
 EXPLOSIVES  
 FIRES  
 FLAME PROPAGATION  
 FLASH  
 FLASHBACK  
 #HAZARDS  
 HYDROCARBON COMBUSTION  
 IMPLSIONS  
 REACTOR SAFETY  
 RIEBANN WAVES  
 SAFETY  
 SHOCK WAVES  
 SOUND PRESSURE  
 SPONTANEOUS COMBUSTION  
 #WARNING SYSTEMS  
 EXPLOSIVE DECOMPRESSION  
 0408 1202 1203  
 BT PRESSURE REDUCTION  
 RT #EXPLOSIONS  
 IMPLSIONS  
 PRESSURE RECOVERY  
 PRESSURIZED CABINS  
 #EXPLOSIVE DEVICES  
 2205 3302 3401  
 UP CARTRIDGE ACTUATED DEVICES  
 NT BOMBS (ORDNANCE)  
 BOOSTERS (EXPLOSIVES)  
 CAPS (EXPLOSIVES)  
 DETONATORS  
 INITIATORS (EXPLOSIVES)  
 PRIMERS (EXPLOSIVES)  
 SHAPED CHARGES  
 TORPEDOES  
 RT ACTUATORS  
 AMMUNITION  
 CHARGING  
 DEVICES  
 #IGNITERS  
 PROPELLANT ACTUATED DEVICES  
 WARHEADS  
 EXPLOSIVE FORMING  
 1507 1704  
 BT COLD WORKING  
 #FORMING TECHNIQUES  
 #METAL WORKING  
 BT BULGING  
 DEEP DRAWING  
 ELECTROHYDRAULIC FORMING

# NASA THESAURUS (ALPHABETICAL LISTING)

**#PHOTOGRAPHY**  
 POSITION (LOCATION)  
 POSITIONING  
 RADIATION DOSAGE  
**#TIME**  
 TRINITROTOLUENE  
 WEATHERING  
**EXPRESSIONS (MATHEMATICS)**  
 USE FORMULAS (MATHEMATICS)  
**EXPULSION**  
 2501 2802 2803 2804 2809 3102 3407  
 RT ACCELERATION (PHYSICS)  
 CIRCUIT PROTECTION  
 DISPOSAL  
 DUMPING  
 EJECTION  
 EMPTYING  
 EXCRETION  
 EXHAUST VELOCITY  
 EXPELLANTS  
 EXPIRATION  
**#FLUID FLOW**  
 GRAVITY GRADIENT SATELLITES  
 JETTISONING  
 PARTICLE EMISSION  
 PRESSURIZING  
 REMOVAL  
 UNLOADING  
**EXPULSION BLADDERS**  
 2701 2702  
 BT BLADDERS  
 RT BELLOWS  
 EJECTION  
 EMPTYING  
**#EXPANDABLE STRUCTURES**  
 FUEL TANK PRESSURIZATION  
 FUEL TANKS  
 PRESSURIZING  
 PROPELLANT STORAGE  
 PROPELLANT TANKS  
 STORAGE TANKS  
**EXTARS**  
 1406 1412 2309 2402 3001 3002  
 BT #CELESTIAL BODIES  
 STARS  
 RT EMISSION SPECTRA  
 NEUTRON STARS  
 RADIATION SOURCES  
 STELLAR RADIATION  
 X RAY ASTRONOMY  
 X RAY TELESCOPES  
 X RAYS  
**EXTENSIONS**  
 1504 3406  
 NT PROLONGATION  
 RT ACCESSORIES  
 ADAPTERS  
 CONTRACTS  
 DECONTAMINATION  
**#EXPANSION**  
 FILLING  
 FITTINGS  
 REVISIONS  
 SUPPLEMENTS  
**EXTENSOMETERS**  
 1406 3203  
 UP DILATOMETERS  
 BT #MEASURING INSTRUMENTS  
 DEFORMETERS  
 RT DILATOMETRY  
 ELASTOMETERS  
**#MECHANICAL MEASUREMENT**  
 STRAIN GAGES  
 STRESS MEASUREMENT  
 TENSOMETERS  
 THERMAL EXPANSION  
**#TRANSDUCERS**  
**EXTERNAL COMBUSTION ENGINES**  
 1504 3301 3404  
 RT AUTOMOBILE ENGINES  
 BOILERS  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 PISTON ENGINES  
**EXTERNAL STORES**  
 0801 0802  
 NT PODS (EXTERNAL STORES)  
 RT NACELLES  
 PROTUBERANCES  
 STORAGE  
 WING-PUSHELAGE STORES  
 WING TANKS

**EXTINCTION**  
 2306 2310 2402 2403  
 NT INTERSTELLAR EXTINCTION  
 RT #EVOLUTION (DEVELOPMENT)  
 EXTINGUISHING  
**#FADING**  
 FLUORESCENCE  
**EXTINGUISHERS**  
 USE FIRE EXTINGUISHERS  
**EXTINGUISHING**  
 0603 3301  
 UP FLAME QUENCHING  
 RT BURNOUT  
**#COMBUSTION**  
 EXTINGUISHING  
 FLAMEOUT  
**#OCCULTATION**  
 QUENCHING  
 QUENCHING (COOLING)  
**EXTRACTION**  
 0403 0602 0603 1704 2310  
 NT ION EXTRACTION  
 SOLVENT EXTRACTION  
 RT BEDS (PROCESS ENGINEERING)  
 BENEFICIATION  
 CENTRIFUGES  
 CENTRIFUGING  
 COLUMNS (PROCESS ENGINEERING)  
 CONCENTRATING  
 DIALYSIS  
**#DIFFUSION**  
 DISSOLVING  
 ELUTION  
 FILTRATION  
 FURNACES  
 HYDROLYSIS  
 LEACHING  
 MATERIAL ABSORPTION  
 MATERIALS RECOVERY  
 MELTING  
 OSMOSIS  
 PERCOLATION  
 REFINING  
 REMOVAL  
 SEPARATION  
 SOLVENTS  
**#SORPTION**  
 WASHERS (CLEANERS)  
**EXTRAGALACTIC LIGHT**  
 USE #EXTRATERRESTRIAL RADIATION  
 LIGHT (VISIBLE RADIATION)  
**EXTRAPOLATION**  
 1902 1905  
 RT PINITE DIFFERENCE THEORY  
**#FORECASTING**  
 INTERPOLATION  
 PERIODIC VARIATIONS  
 QUALITY CONTROL  
**#STATISTICAL ANALYSIS**  
 TESTS  
 TIME SERIES ANALYSIS  
 TRENDS  
**EXTRASENSORY PERCEPTION**  
 0408 0410  
 UP PARAPSYCHOLOGY  
 BT #PERCEPTION  
 SENSORY PERCEPTION  
**EXTRATERRESTRIAL ENVIRONMENTS**  
 0401 0404 3009  
 NT CHROMOSPHERE  
 CISELUNAR SPACE  
 DEEP SPACE  
 INTERPLANETARY SPACE  
 INTERSTELLAR SPACE  
 JUPITER ATMOSPHERE  
 LUNAR ATMOSPHERES  
 LUNAR ENVIRONMENT  
 MARS ATMOSPHERE  
 MARS ENVIRONMENT  
 PLANETARY ATMOSPHERES  
 PLANETARY ENVIRONMENTS  
 SOLAR ATMOSPHERE  
 STELLAR ATMOSPHERES  
 BT #ENVIRONMENTS  
 RT AEROSPACE ENVIRONMENTS  
 HIGH GRAVITY ENVIRONMENTS  
 SPACE EXPLORATION  
 SPACECRAFT ENVIRONMENTS  
**EXTRATERRESTRIAL LIFE**  
 0401  
 RT AEROSPACE ENVIRONMENTS  
 BIOSATELLITES

## EXTRAVEHICULAR ACTIVITY

**EXO BIOLOGY**  
 LIFE DETECTORS  
**#EXTRATERRESTRIAL MATTER**  
 0603 2311  
 NT COSMIC GASES  
 COSMIC PLASMA  
 INTERPLANETARY GAS  
 INTERSTELLAR GAS  
 RT MATTER (PHYSICS)  
 VENUS FLY TRAP ROCKET VEHICLE  
**#EXTRATERRESTRIAL RADIATION**  
 2306 2402 2901 2902 2903  
 UP EXTRAGALACTIC LIGHT  
 SPACE RADIATION  
 STELLAR DOPPLER SHIFT  
 NT EXTRATERRESTRIAL RADIO WAVES  
 GALACTIC RADIATION  
 GALACTIC RADIO WAVES  
 GEGENSCHNEIN  
 INTERSTELLAR RADIATION  
 LUNAR RADIATION  
 PLANETARY RADIATION  
 PRIMARY COSMIC RAYS  
 SOLAR CORPUSCULAR RADIATION  
 SOLAR COSMIC RAYS  
 SOLAR PROTONS  
 SOLAR RADIATION  
 SOLAR RADIO BURSTS  
 SOLAR RADIO EMISSION  
 SOLAR WIND  
 SOLAR X-RAYS  
 STELLAR RADIATION  
 STELLAR WINDS  
 SUNLIGHT  
 TYPE 2 BURSTS  
 TYPE 3 BURSTS  
 TYPE 4 BURSTS  
 TYPE 5 BURSTS  
 ZODIACAL LIGHT  
 RT AEROSPACE ENVIRONMENTS  
 AEROSPACE SCIENCES  
**#ATMOSPHERIC RADIATION**  
 BACKGROUND RADIATION  
 CORPUSCULAR RADIATION  
 COSMIC RAYS  
 ELECTROMAGNETIC NOISE  
**#ELECTROMAGNETIC RADIATION**  
 LIGHT (VISIBLE RADIATION)  
 LYMAN ALPHA RADIATION  
 LYMAN BETA RADIATION  
 POLARIZED ELECTROMAGNETIC RADIATION  
**#POLARIZED RADIATION**  
 RADIATION  
 RADIATION BELTS  
 RADIATIVE TRANSFER  
 RADIO WAVES  
 RAYS  
 SYNCHROTRON RADIATION  
 TERRESTRIAL RADIATION  
 X RAYS  
**EXTRATERRESTRIAL RADIO WAVES**  
 2402 2903  
 UP COSMIC RADIO WAVES  
 NT GALACTIC RADIO WAVES  
 SOLAR RADIO BURSTS  
 SOLAR RADIO EMISSION  
 TYPE 2 BURSTS  
 TYPE 3 BURSTS  
 TYPE 4 BURSTS  
 TYPE 5 BURSTS  
 BT #ELECTROMAGNETIC RADIATION  
**#EXTRATERRESTRIAL RADIATION**  
 RADIO WAVES  
 RT MICROWAVES  
 MILLIMETER WAVES  
 RADIO ASTRONOMY  
 RADIO EMISSION  
 RADIO FREQUENCY INTERFERENCE  
 RADIO SOURCES (ASTRONOMY)  
**EXTRATERRESTRIAL RESOURCES**  
 3004 3007 3409  
 BT #RESOURCES  
 RT LUNAR EXPLORATION  
 PLANETARY BASES  
 SPACE EXPLORATION  
 SPACE LOGISTICS  
**EXTRAVEHICULAR ACTIVITY**  
 0502 3104  
 (ACTIVITY OUTSIDE THE SPACECRAFT)  
 RT AEROSPACE ENVIRONMENTS  
 APOLLO EXTENSION SYSTEM  
 ASTRONAUT LOCOMOTION

# EXTREMA

ASTRONAUT MANEUVERING EQUIPMENT  
 IMLESS  
 INTRAVERTEBRAL ACTIVITY  
 MAN OPERATED PROPULSION SYSTEMS  
 MANNED SPACE FLIGHT  
 ORBITAL WORKERS  
 SELF MANEUVERING UNITS  
 \*SPACE FLIGHT  
 SPACE MAINTENANCE  
 UMBILICAL CONNECTORS  
 WEIGHTLESSNESS

# EXTREMA

USE #RANGE (EXTREMES)  
 EXTREMELY HIGH FREQUENCIES  
 0705 0710 2301 2309 2312 2402  
 (30 TO 300 GHZ)  
 UF K BAND  
 KA BAND  
 V BAND  
 BT #FREQUENCIES  
 MICROWAVE FREQUENCIES  
 RADIO FREQUENCIES  
 RT MILLIMETER WAVES  
 EXTREMELY LOW RADIO FREQUENCIES  
 0705 0710 2301 2402  
 (BELOW 300 H)  
 UF ULTRALOW FREQUENCIES  
 BT #FREQUENCIES  
 RADIO FREQUENCIES  
 RT AUDIO FREQUENCIES  
 EXTREMUM VALUES  
 1902

NT LIMITS (MATHEMATICS)  
 MAXIMA  
 MINIMA  
 BT #ANALYSIS (MATHEMATICS)  
 REAL VARIABLES  
 RT EULER-LAGRANGE EQUATION  
 #FUNCTIONS (MATHEMATICS)  
 #OPTIMIZATION  
 PEAKS  
 PROBABILITY THEORY

# EXTROVERSION

0408 0410  
 RT BEHAVIOR  
 HUMAN BEHAVIOR  
 #PSYCHOLOGY

# EXTRUDING

1704  
 UF HOT EXTRUDING  
 BT #FORMING TECHNIQUES  
 RT CASTING  
 CLADDING  
 COLD WORKING  
 DIES  
 DRAWING  
 EXPLOSIVE FORMING  
 INTRUSION  
 METAL SPINNING  
 #METAL WORKING  
 PIERCING  
 PRESSING (FORMING)

# EYE (ANATOMY)

0404  
 NT CHOROID MEMBRANES  
 CONJUNCTIVA  
 CORNEA  
 FOVEA  
 NYSTAGMUS  
 OCULOMOTOR NERVES  
 PUPILS  
 RETINA  
 BT #ANATOMY  
 SENSE ORGANS  
 RT COLOR VISION  
 EYE DISEASES  
 FACE (ANATOMY)  
 HEAD (ANATOMY)  
 LENSES  
 MIOSIS  
 OPHTHALMODYNAMOMETRY  
 OPHTHALMOLOGY  
 OPTOMETRY  
 VISION

# EYE DISEASES

0405 0408  
 NT ASTHENOPIA  
 ASTIGMATISM  
 CATARACTS  
 CONJUNCTIVITIS  
 GLAUCOMA  
 HYPEROPIA

# NASA THESAURUS (ALPHABETICAL LISTING)

PHORIA  
 RT BLINDNESS  
 EYE (ANATOMY)  
 EYE EXAMINATIONS  
 OPHTHALMOLOGY  
 EYE DOMINANCE  
 0404 0408  
 BT DOMINANCE  
 RT VISION  
 EYE EXAMINATIONS  
 0405  
 BT EXAMINATION  
 OPHTHALMOLOGY  
 RT EYE DISEASES  
 EYE MOVEMENTS  
 0404 0405 0408  
 NT NYSTAGMUS  
 RT OCULOMETERS  
 RAPID EYE MOVEMENT STATE  
 EYE PROTECTION  
 0405 0508  
 BT #PROTECTION  
 RT FLASH BLINDNESS  
 GOGGLES  
 SUNGLASSES  
 VISORS  
 EYEPieces  
 1412 2310  
 BT #OPTICAL EQUIPMENT  
 RT BINOCULARS  
 CONTACT LENSES  
 LENSES  
 MICROSCOPES  
 PERISCOPES  
 SUNGLASSES  
 #TELESCOPES  
 EYRING THEORY  
 1202 2404  
 BT #KINETIC THEORY  
 TRANSPORT THEORY  
 RT EQUILIBRIUM FLOW  
 FLUID DYNAMICS  
 THEORIES

# F

**F-2 AIRCRAFT**  
 0207 3401  
 UF HAWKER HUNTER AIRCRAFT  
 HUNTER F-2 AIRCRAFT  
 BT HAWKER SIDDELEY AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
**F-4 AIRCRAFT**  
 0207 3401  
 UF F-110 AIRCRAFT  
 F4H AIRCRAFT  
 RF-4 AIRCRAFT  
 BT #JET AIRCRAFT  
 MCDONNELL AIRCRAFT  
 PHANTOM AIRCRAFT  
 J-79 ENGINE  
**F-5 AIRCRAFT**  
 0207 3401  
 UF FREEDOM FIGHTER AIRCRAFT  
 F-156 AIRCRAFT  
 BT COIN AIRCRAFT  
 #JET AIRCRAFT  
 NORTHROP AIRCRAFT  
**F-8 AIRCRAFT**  
 0207 3401  
 UF CRUSADER AIRCRAFT  
 F8U AIRCRAFT  
 RF-8 AIRCRAFT  
 BT #JET AIRCRAFT  
 LING-TENCO-VOUGHT AIRCRAFT  
**F-9 AIRCRAFT**  
 0207 3401  
 UF COUGAR AIRCRAFT  
 F9F AIRCRAFT  
 PANTHER AIRCRAFT  
 BT GRUMMAN AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
**F-14 AIRCRAFT**  
 0201 0207 0207  
 BT ATTACK AIRCRAFT  
 FIGHTER AIRCRAFT  
 GRUMMAN AIRCRAFT  
 #JET AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
**F-15 AIRCRAFT**  
 0207 3401  
 BT ATTACK AIRCRAFT  
 FIGHTER AIRCRAFT  
 #JET AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 RT AIRCRAFT  
**F-27 AIRCRAFT**  
 0207 3401  
 UF FOKKER F 27 AIRCRAFT  
 FOKKER FRIENDSHIP AIRCRAFT  
 BT FOKKER AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 TURBOPROP AIRCRAFT  
**F-80 AIRCRAFT**  
 USE T-33 AIRCRAFT  
**F-84 AIRCRAFT**  
 0207 3401  
 BT #JET AIRCRAFT  
 MONOPLANES  
 REPUBLIC AIRCRAFT  
**F-86 AIRCRAFT**  
 0207 3401  
 UF SABRE AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 NORTH AMERICAN AIRCRAFT  
**F-89 AIRCRAFT**  
 0207 3401  
 BT #JET AIRCRAFT  
 MONOPLANES  
 NORTHROP AIRCRAFT  
**F-94 AIRCRAFT**  
 0207 3401  
 BT #JET AIRCRAFT  
 LOCKHEED AIRCRAFT  
 MONOPLANES  
**F-100 AIRCRAFT**  
 0207 3401  
 UF SUPER SABRE AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 NORTH AMERICAN AIRCRAFT

#SUPERSONIC AIRCRAFT  
**F-101 AIRCRAFT**  
 0207 3401  
 UF JF 101 AIRCRAFT  
 VOOODOO AIRCRAFT  
 BT #JET AIRCRAFT  
 MCDONNELL AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
**F-102 AIRCRAFT**  
 0207 3401  
 UF DELTA DAGGER AIRCRAFT  
 YF-102 AIRCRAFT  
 BT #GENERAL DYNAMICS AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 #SUPERSONIC AIRCRAFT  
 TAILLESS AIRCRAFT  
**F-104 AIRCRAFT**  
 0207 3401  
 UF CANADAIR CP-104 AIRCRAFT  
 CF-104 AIRCRAFT  
 STARFIGHTER AIRCRAFT  
 BT #JET AIRCRAFT  
 LOCKHEED AIRCRAFT  
 MONOPLANES  
 #SUPERSONIC AIRCRAFT  
**F-105 AIRCRAFT**  
 0207 3401  
 UF THUNDERCHIEF AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 REPUBLIC AIRCRAFT  
**F-106 AIRCRAFT**  
 0207 3401  
 UF DELTA DART AIRCRAFT  
 BT #GENERAL DYNAMICS AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 #SUPERSONIC AIRCRAFT  
 TAILLESS AIRCRAFT  
**F-110 AIRCRAFT**  
 USE F-4 AIRCRAFT  
**F-111 AIRCRAFT**  
 0207 3401  
 UF LASV  
 LOW ALTITUDE SUPERSONIC VEHICLES  
 TEX AIRCRAFT  
 BT #GENERAL DYNAMICS AIRCRAFT  
 GRUMMAN AIRCRAFT  
 #JET AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 TURBOPAN AIRCRAFT  
 RT VARIABLE SWEEP WINGS  
**F-114 AIRCRAFT**  
 0207 3401  
 UF SWIFT XF-114 AIRCRAFT  
**F CENTERS**  
 USE COLOR CENTERS  
**F DISPLAYS**  
 USE F REGION  
**F-28 HELICOPTER**  
 0206 0207  
 BT ENSTROM AIRCRAFT  
 HELICOPTERS  
 LIGHT AIRCRAFT  
 PASSENGER AIRCRAFT  
 RIGID ROTOR HELICOPTERS  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
**F LAYER**  
 USE F REGION  
**F REGION**  
 1302 1308  
 UF F DISPLAYS  
 F LAYER  
 NIGHT F LAYER  
 NT F 1 REGION  
 F 2 REGION  
 BT #EARTH ATMOSPHERE  
 IONOSPHERE  
 #REGIONS  
**F 1 REGION**  
 1302 1308  
 BT #EARTH ATMOSPHERE  
 F REGION  
 IONOSPHERE  
**F 2 REGION**  
 1302 1308  
 BT #EARTH ATMOSPHERE  
 F REGION  
 IONOSPHERE  
 RT SPREAD F

TRANSEQUATORIAL PROPAGATION  
**F-1 ROCKET ENGINE**  
 2808  
 BT #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES  
 BT BOOSTER ROCKET ENGINES  
 NOVA LAUNCH VEHICLES  
 SATURN LAUNCH VEHICLES  
**F-28 TRANSPORT AIRCRAFT**  
 0201 0204  
 UF FELLOWSHIP AIRCRAFT  
 FOKKER F 28 AIRCRAFT  
 BT FOKKER AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
**FAB (PROGRAMMING LANGUAGE)**  
 USE FORTRAN  
**FABMS**  
 USE FIELD ARMY BALLISTIC MISSILE  
 DEFENSE SYS  
**FABRICATION**  
 1507 3407  
 RT ASSEMBLIES  
 ASSEMBLING  
 CONSTRUCTION  
 LOW GRAVITY MANUFACTURING  
 MANUFACTURING  
 PRODUCTION MANAGEMENT  
**FABRICS**  
 1811  
 UF CLOTH  
 NT CREPE  
 DACRON (TRADEMARK)  
 FELTS  
 FORTISAN (TRADEMARK)  
 GAUZE  
 LINEN  
 PARACHUTE FABRICS  
 SILK  
 WOOL  
 RT #CLOTHING  
 #COATINGS  
 #FIBERS  
 FILMS  
 GORES  
 INTERLAYERS  
 LAMINATES  
 MESH  
 NICARTA  
 MULTILAYER INSULATION  
 RIBBONS  
 SHEETS  
 TEXTILES  
 WEAVING  
 WEBBING  
 WEBS (SHEETS)  
 WIRE CLOTH  
**FABRY-PEROT INTERFEROMETERS**  
 1405 1406  
 BT INTERFEROMETERS  
 #MEASURING INSTRUMENTS  
 RT MICROWAVE INTERFEROMETERS  
 PLASMA DIAGNOSTICS  
**FABRY-PEROT LASERS**  
 USE LASERS  
**FABRY-PEROT SPECTROMETERS**  
 1406 1411  
 BT #MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
 SPECTROMETERS  
 RT ACTINOMETERS  
 AIRGLOW  
 AURORAL SPECTROSCOPY  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
**FACE (ANATOMY)**  
 0401 0405  
 NT CHIN  
 FOREHEAD  
 NOSE (ANATOMY)  
 RT EYE (ANATOMY)  
 HEAD (ANATOMY)  
 LIPS (ANATOMY)  
**FACE CENTERED CUBIC LATTICES.**  
 2601  
 UF FCC LATTICES  
 BT #CRYSTAL LATTICES  
 CUBIC LATTICES

## FACETS

RT BODY CENTERED CUBIC LATTICES  
CLOSE PACKED LATTICES  
\*CRYSTALS

FACETS  
USE FLAT SURFACES

FACILITIES  
1101 1103 1104 1106 1108 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT AIRPORTS  
\*ELECTRIC POWER PLANTS  
GROUND HANDLING  
INDUSTRIAL PLANTS  
LAND USE  
LAUNCHING BASES  
LOGISTICS  
LOGISTICS MANAGEMENT  
MOBILE QUARANTINE FACILITY  
RESEARCH FACILITIES  
ROADS  
\*SITES  
\*STATIONS  
TERMINAL FACILITIES  
\*TEST FACILITIES

FACSIMILE COMMUNICATION  
0702 0705 0710  
UF FACSIMILE TRANSMISSION  
NT AUTOMATIC PICTURE TRANSMISSION  
BT \*TELECOMMUNICATION  
RT INTERPLANETARY COMMUNICATION  
LUNAR COMMUNICATION  
SPACECRAFT COMMUNICATION  
TELETYPEWRITER SYSTEMS  
TELEVISION SYSTEMS  
TRANSOCEANIC COMMUNICATION  
WIRELESS COMMUNICATIONS

FACSIMILE TRANSMISSION  
USE FACSIMILE COMMUNICATION

FACTOR ANALYSIS  
1902  
BT \*STATISTICAL ANALYSIS  
RT CORRELATION  
COVARIANCE  
DEGREES OF FREEDOM  
EXPERIMENTAL DESIGN  
ORTHOGONALITY  
REGRESSION ANALYSIS  
STATISTICAL TESTS  
VARIABILITY  
VARIANCE (STATISTICS)

FACTORIAL DESIGN  
0804 1902 3406  
BT EXPERIMENTAL DESIGN  
RT DESIGN  
MATHEMATICAL MODELS  
\*STATISTICAL ANALYSIS

FACTORIALS  
1902  
BT COMBINATORIAL ANALYSIS  
RT BINOMIAL COEFFICIENTS  
GAMMA FUNCTION

FACTORIES  
USE INDUSTRIAL PLANTS

FACTORS  
USE VARIABLE

FACULAE  
3001 3002  
UF PLAGES (FACULAE)  
SOLAR FACULAE  
BT SOLAR ACTIVITY  
RT ACTIVITY  
CHROMOSPHERE  
PHOTOSPHERE  
SUNSPOTS

FADDEEV EQUATIONS  
1902 2401 2403 2405  
RT EQUATIONS  
PARTICLE COLLISIONS  
SCATTERING AMPLITUDE  
WAVE SCATTERING

\*FADING  
0702 0705 0710 2402  
UF PHASE FADING  
NT SELECTIVE FADING  
SIGNAL FADING  
RT \*ATTENUATION  
BLEACHING  
COLOR  
DISCOLORATION  
ELECTROMAGNETIC ABSORPTION  
EXTINCTION

## NASA THESAURUS (ALPHABETICAL LISTING)

WAVE DISPERSION  
FAHRENHEIT TEMPERATURE SCALE  
USE TEMPERATURE SCALES  
FAIL-SAFE SYSTEMS  
0506 1505 3404 3407  
RT AUTOMATION  
EMERGENCIES  
SAFETY DEVICES  
SAFETY MANAGEMENT  
SYSTEMS

FAILURE  
1505 3203 3406  
UF MISFIRES  
NT BURNTHROUGH (FAILURE)  
ENGINE FAILURE  
FAILURE ANALYSIS  
STRUCTURAL FAILURE  
SYSTEM FAILURES  
RT ABORTED MISSIONS  
BREAKDOWN  
BUCKLING  
COLLAPSE  
CORROSION  
CRACKING (FRACTURING)  
CUMULATIVE DAMAGE  
\*DEFORMATION  
DESTRUCTION  
DETERIORATION  
DISTORTION  
DOWNTIME  
ELECTRICAL FAULTS  
FAILURE MODES  
FATIGUE (MATERIALS)  
FLASHOVER  
FRACTURES (MATERIALS)  
MALFUNCTIONS  
MILLS RATIO  
RUPTURING  
SHEARING  
SHORT CIRCUITS  
STRUCTURAL STRAIN  
TEMPERATURE INVERSIONS  
WEAR

FAILURE ANALYSIS  
1504  
BT FAILURE  
RT ANALYZING  
FAILURE MODES  
FATIGUE LIFE  
LIFE (DURABILITY)  
MILLS RATIO  
MTBF  
PROBABILITY DENSITY FUNCTIONS  
RELIABILITY  
\*STATISTICAL ANALYSIS

FAILURE MODES  
1505 3203  
RT FAILURE  
FAILURE ANALYSIS

PAINTING  
USE \*SYNCOPE

FAIRCHILD-HILLER AIRCRAFT  
0201 0204  
UF FAIRCHILD MILITARY AIRCRAFT  
NT C-119 AIRCRAFT  
C-123 AIRCRAFT  
HILLER 1098 CONVERTAPLANE  
HILLER 1123 HELICOPTER  
OH-5 HELICOPTER  
OH-23 HELICOPTER  
XC-142 AIRCRAFT  
RT AIRCRAFT  
FAIRCHILD MILITARY AIRCRAFT  
USE FAIRCHILD-HILLER AIRCRAFT  
FAIRHEY AIRCRAFT  
0201  
NT FD 2 AIRCRAFT  
RT AIRCRAFT  
FAIRLEY DELTA 2 AIRCRAFT  
USE FD 2 AIRCRAFT

PAIRINGS  
0102 1504 3202 3203  
BT STREAMLINED BODIES  
\*SYMMETRICAL BODIES  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT STRUCTURES  
CANOPIES  
COWLINGS  
PILLETS  
HOUSINGS  
LANDING GEAR  
NACELLES

OGIVES  
PERFORATED SHELLS  
PROTECTORS  
PROTUBERANCES  
SHEATHS  
\*SHELLS (STRUCTURAL FORMS)  
STREAMLINING  
WING ROOTS

FAITH 7  
3104 3110 3409  
BT \*MANNED SPACECRAFT  
MERCURY SPACECRAFT  
RECOVERABLE SPACECRAFT  
\*REENTRY VEHICLES  
\*SOFT LANDING SPACECRAFT  
\*SPACE CAPSULES  
RT MERCURY MA-2 FLIGHT  
MERCURY MA-9 FLIGHT  
FALCON MISSILE  
3101 3401  
BT AIR TO AIR MISSILES  
ANTI-AIRCRAFT MISSILES  
\*MISSILES  
RT M-46 ENGINE  
SOLID PROPELLANT ROCKET ENGINES  
FALKNER-SKAN EQUATION  
1202 1902  
BT \*ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT BLASIVUS EQUATION  
BOUNDARY LAYER SEPARATION  
LAMINAR FLOW  
PRANDTL-METTER EXPANSION  
WEDGE FLOW

FALLING  
1309 2308  
RT \*ATMOSPHERIC ENTRY  
DESCENT TRAJECTORIES  
FALLING SPHERES  
PARTICLE MOTION  
PRECIPITATION  
SINKING  
VERTICAL MOTION

FALLING SPHERES  
1902 2308  
BT SPHERES  
RT BALLS  
FALLING  
FREE FALL  
GLOBULES  
RAINDROPS  
SPHEROIDS

FALLOUT  
0411 0505  
UF RADIOACTIVE FALLOUT PARTICLES  
WASHOUT (RADIOACTIVITY)  
RT AIR POLLUTION  
FISSION PRODUCTS  
FISSION WEAPONS  
NUCLEAR EXPLOSION EFFECT  
NUCLEAR EXPLOSIONS  
NUCLEAR METEOROLOGY  
POST-BLAST NUCLEAR RADIATION  
RADIATION  
RADIATION EFFECTS  
RADIATION HAZARDS  
RADIOACTIVE CONTAMINANTS  
RADIOACTIVE DEBRIS  
RADIOACTIVITY

FAN IN WING AIRCRAFT  
0101 0102 0103 0104 0201 0206 0209  
NT XV-5 AIRCRAFT  
RT LIFT FANS  
RESEARCH AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
TILT WING AIRCRAFT  
\*V-STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
FANLIFT DEVICES  
USE LIFT FANS  
FANS  
0104 1504 2805  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ACTUATOR DISKS  
AIR CONDITIONING EQUIPMENT  
AIR DUCTS  
ANTENNA RADIATION PATTERNS  
BLOWERS  
COMPRESSOR ROTORS

**WASA THESAURUS (ALPHABETICAL LISTING)**

COMPRESSORS  
DUCTED FANS  
PROPELLER FANS  
TURBOPANS  
VENTILATION FANS  
WIND TUNNEL DRIVES

**FAR FIELDS**  
0705 2301 2402  
UF FRAUNHOFER REGION  
BT ELECTROMAGNETIC FIELDS  
RT ANTENNA RADIATION PATTERNS  
#ELECTROMAGNETIC RADIATION  
FIELD THEORY (PHYSICS)  
FRESNEL REGION  
NOISE PROPAGATION  
RADIANT FLUX DENSITY

**FAR INFRARED RADIATION**  
1404 2310 2402 2903  
(30 MICRONS TO ABOUT 1000 MICRONS)  
BT #ELECTROMAGNETIC RADIATION  
INFRARED RADIATION  
RT LONG WAVE RADIATION  
NEAR INFRARED RADIATION  
RADIO WAVES  
SHORT WAVE RADIATION  
SUBMILLIMETER WAVES  
TERRESTRIAL RADIATION

**FAR ULTRAVIOLET RADIATION**  
1404 2310 2402 2903  
(200 TO 2000 ANGSTROMS)  
UF VACUUM ULTRAVIOLET RADIATION  
NT LYMAN ALPHA RADIATION  
LYMAN BETA RADIATION  
BT #ELECTROMAGNETIC RADIATION  
#IONIZING RADIATION  
ULTRAVIOLET RADIATION  
RT BREMSSTRAHLUNG  
NEAR ULTRAVIOLET RADIATION  
X RAYS

**FARADAY DARK SPACE**  
0603 1203 2304 2306 2402  
RT GAS DISCHARGE TUBES  
GLOW DISCHARGES

**FARADAY EFFECT**  
2306 2307 2310 2402  
UF FARADAY ROTATION  
RT CIRCULATORS (PHASE SHIFT CIRCUITS)  
ELECTROMAGNETIC PROPERTIES  
HALL GENERATORS  
KERR MAGNETOOPTICAL EFFECT  
MAGNETO-OPTICS  
#OPTICAL MEASUREMENT  
OPTICAL PROPERTIES  
POLARIZATION (WAVES)  
POLARIZED ELECTROMAGNETIC RADIATION  
ROTATION

**FARADAY ROTATION**  
USE FARADAY EFFECT

**FARM CROPS**  
0409  
NT FRUITS  
LEGUMINOUS PLANTS  
POTATOES  
BT EARTH RESOURCES  
RT AGRICULTURE  
BOTANY  
CROP GROWTH  
CROP VIGOR  
CROPS  
CURING  
GRASSES  
IRRIGATION  
SEEDS  
STORAGE

**FAST NEUTRONS**  
2401 2403  
BT ELEMENTARY PARTICLES  
FERMIONS  
NEUTRAL PARTICLES  
NEUTRONS  
NUCLEAR RADIATION  
#PARTICLES  
RT FAST NUCLEAR REACTORS  
FAST OXIDE REACTORS  
NUCLEONS  
THERMAL NEUTRONS

**FAST NUCLEAR REACTORS**  
2204  
NT EXPERIMENTAL BREEDER REACTOR 1  
EXPERIMENTAL BREEDER REACTOR 2  
FAST OXIDE REACTORS  
BT FAST TEST REACTORS

#NUCLEAR REACTORS  
RT ENRICO FERMI ATOMIC POWER PLANT  
FAST NEUTRONS  
NUCLEAR POWER REACTORS  
FAST OXIDE REACTORS  
2204 2203  
BT FAST NUCLEAR REACTORS  
#NUCLEAR REACTORS  
RT FAST NEUTRONS  
NUCLEAR POWER REACTORS  
FAST TEST REACTORS  
2203 2204  
NT FAST NUCLEAR REACTORS  
BT #NUCLEAR REACTORS  
RT REACTORS

**#FASTENERS**  
1504  
NT ANCHORS (FASTENERS)  
BOLTS  
BUTTONS (FASTENERS)  
LOCKS (FASTENERS)  
NUTS (FASTENERS)  
PINS  
RIVETS  
ROCK BOLTS  
SCREWS  
TIEBOLTS  
WASHERS (SPACERS)  
ZIPPERS  
BT ADHESIVES  
BANDS  
BELTS  
BRACKETS  
CABLES (ROPES)  
CHAINS  
CLAMPS  
CLIPS  
CLOSURES  
CONNECTORS  
COUPLINGS  
FITTINGS  
HOLDERS  
HOOKS  
INSERTS  
#JOINTS (JUNCTIONS)  
LATCHES  
LINKAGES  
LOCKING  
LUGS  
MOOSING  
RIBBONS  
SLEEVES  
SPACERS  
SPIKES  
SPLICING  
SPLINES  
STRAPS  
#STRUCTURAL MEMBERS  
STUDS (STRUCTURAL MEMBERS)  
TAPES  
UNIONS (CONNECTORS)  
#WIRE

**FAT EMBOLISMS**  
0404 0405  
BT #DISEASES  
EMBOLISMS  
RT BLOOD VESSELS  
CARDIOVASCULAR SYSTEM  
HEART DISEASES

**FATIGUE (BIOLOGY)**  
0405 0408  
NT AUDITORY FATIGUE  
FLIGHT FATIGUE  
MUSCULAR FATIGUE  
RT ASTHENOPHIA  
#DAMAGE  
EFFORT  
EXERCISE (PHYSIOLOGY)  
EXHAUSTION  
HUMAN FACTORS ENGINEERING  
PERFORMANCE  
#STRESS (PHYSIOLOGY)  
STRESS (PSYCHOLOGY)  
WORK-REST CYCLE

**FATIGUE (MATERIALS)**  
0408 1704 2603  
UF STRAIN FATIGUE  
STRUCTURAL FATIGUE  
NT BENDING FATIGUE  
METAL FATIGUE  
THERMAL FATIGUE  
RT BAUSCHINGER EFFECT

**FATTY ACIDS**

CRACK PROPAGATION  
CRACKING (FRACTURING)  
CRACKS  
CREEP PROPERTIES  
CRYSTAL DISLOCATIONS  
#CYCLES  
#DAMAGE  
DESTRUCTION  
DUCTILITY  
ENDURANCE  
FAILURE  
FRACTOGRAPHY  
FRETTING  
FRETTING CORROSION  
HARDNESS  
#MECHANICAL PROPERTIES  
NOTCH SENSITIVITY  
PLASTIC PROPERTIES  
S-N DIAGRAMS  
SHEAR PROPERTIES  
SHOT PEENING  
STRESS CONCENTRATION  
STRESS CYCLES  
STRESS RATIO  
STRESS RELAXATION  
STRESS RELIEVING  
#STRESSES  
STRUCTURAL FAILURE  
STRUCTURAL STRAIN  
SURFACE DEFECTS  
SYSTEM FAILURES  
TEMPERATURE INVERSIONS  
THERMAL STRESSES  
#VIBRATION

**FATIGUE DIAGRAMS**  
USE S-N DIAGRAMS

**FATIGUE LIFE**  
3203 3204  
BT LIFE (DURABILITY)  
#MECHANICAL PROPERTIES  
RT ACCELERATED LIFE TESTS  
FAILURE ANALYSIS  
PALMGREN-MINER RULE  
S-N DIAGRAMS  
SERVICE LIFE  
STRESS CYCLES

**FATIGUE TESTING MACHINES**  
1504 3203 3204  
RT FATIGUE TESTS  
TEST EQUIPMENT

**FATIGUE TESTS**  
3203 3204  
UF FULL SCALE FATIGUE TESTS  
RT BENDING  
CREEP TESTS  
DESTRUCTIVE TESTS  
FATIGUE TESTING MACHINES  
IMPACT TESTS  
LOAD TESTS  
MATERIALS TESTS  
NOTCH STRENGTH  
NOTCH TESTS  
RESONANCE TESTING  
S-N DIAGRAMS  
STATIC TESTS  
STRESS CONCENTRATION  
STRESS CYCLES  
STRESS RATIO  
TENSILE TESTS  
TESTING TIME  
TESTS  
THERMAL CYCLING TESTS  
WEIBULL DENSITY FUNCTIONS  
WELD TESTS

**FATS**  
0403 0404 1808  
BT CHOLINE  
BT #CARBOHYDRATES  
#ORGANIC COMPOUNDS  
RT ADIPOSE TISSUES  
FOOD  
GREASES  
MYELIN  
NUTRIENTS  
OILS  
PALMITIC ACID

**FATTY ACIDS**  
0403 1808  
RT IODOACETIC ACID  
LIPIC ACID  
OLEIC ACID  
PALMITIC ACID

# FAULT MECHANICS

PROPIONIC ACID  
SEBACIC ACID  
VALERIC ACID  
VERSENE  
BT #ACIDS  
#ORGANIC COMPOUNDS  
RT CASTOR OIL  
NUTRIENTS  
FAULT MECHANICS  
USE FRACTURE MECHANICS  
FAULTS  
1306  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ELECTRICAL FAULTS  
GEOLOGICAL FAULTS  
PAYALITE  
1704 1806  
BT #IRON COMPOUNDS  
#MINERALS  
#SILICATES  
#SILICON COMPOUNDS  
FBFM (MODULATION)  
USE FEEDBACK FREQUENCY MODULATION  
FBM (MISSILES)  
USE FLEET BALLISTIC MISSILES  
FCC LATTICES  
USE FACE CENTERED CUBIC LATTICES  
PD 2 AIRCRAFT  
0201  
UP FAIRY DELTA 2 AIRCRAFT  
BT FAIRY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
TAILLESS AIRCRAFT  
RT DELTA WINGS  
PDL-5 REENTRY VEHICLE  
3105  
BT LIFTING REENTRY VEHICLES  
#REENTRY VEHICLES  
FEAR  
0408 0410  
NT FEAR OF FLYING  
RT ANXIETY  
EMOTIONS  
NEUROSES  
PANIC  
PHOBIAS  
PSYCHOSES  
FEAR OF FLYING  
0401 0408 0410  
BT ANXIETY  
FEAR  
PHOBIAS  
RT EMOTIONS  
NEUROSES  
FEASIBILITY  
3406  
BT ESTIMATING  
FEATHERING  
0201  
RT PROPELLER BLADES  
PROPELLERS  
PECES  
0404 0505  
BT HUMAN WASTES  
METABOLIC WASTES  
#WASTES  
RT EXCRETION  
PERSPIRATION  
URINE  
FEDERAL BUDGETS  
3402 3406  
BT BUDGETING  
BT ALLOCATIONS  
APPROPRIATIONS  
BUDGETS  
CONTRACTS  
COST ESTIMATES  
FINANCIAL MANAGEMENT  
GOVERNMENT PROCUREMENT  
PROCUREMENT MANAGEMENT  
FEDERATIONS  
3403  
NT BUREAUS (ORGANIZATIONS)  
BT #ORGANIZATIONS  
RT CONGRESS  
INSTITUTIONS  
INTERNATIONAL COOPERATION  
NATIONS

TEAMS  
UNIONIZATION  
UNITED NATIONS  
FEED SYSTEMS  
0102 0302 2701 2702 2802 2803 2804  
BT COLD FLOW TESTS  
FUEL TANKS  
#PUMPS  
#FEEDBACK  
0201 0702 0802 1003 3405  
NT NEGATIVE FEEDBACK  
NONLINEAR FEEDBACK  
POSITIVE FEEDBACK  
SENSORY FEEDBACK  
RT COMPENSATORS  
COMPLEXITY  
CONTROL THEORY  
CYBERNETICS  
#ELECTROMAGNETIC INTERFERENCE  
EMOTIONAL FACTORS  
FEEDBACK CIRCUITS  
#OSCILLATIONS  
#OSCILLATORS  
SYSTEMS  
TRANSFER FUNCTIONS  
FEEDBACK AMPLIFIERS  
0902 0905 1002 1201  
BT #AMPLIFIERS  
RT FEEDBACK CIRCUITS  
FEEDBACK CONTROL  
FEEDBACK FREQUENCY MODULATION  
NONLINEAR FEEDBACK  
#OSCILLATORS  
PHANTASTONS  
POSITIVE FEEDBACK  
POWER AMPLIFIERS  
SELF OSCILLATION  
SERVOAMPLIFIERS  
TRANSISTOR AMPLIFIERS  
VOLTAGE AMPLIFIERS  
FEEDBACK CIRCUITS  
0902 1002  
BT #CIRCUITS  
BT #FEEDBACK  
FEEDBACK AMPLIFIERS  
FEEDBACK CONTROL  
FEEDFORWARD CONTROL  
TRANSFER FUNCTIONS  
FEEDBACK CONTROL  
0503 0802 1003 1201 2102  
UP CLOSED LOOP SYSTEMS  
SERVO LOOPS  
STABILITY AUGMENTATION  
BT CASCADE CONTROL  
BT #AUTOMATIC CONTROL  
ADAPTIVE CONTROL  
RT AUTOMATIC FREQUENCY CONTROL  
AUTOMATIC GAIN CONTROL  
AUTOMATION  
CONTROL  
CONTROL EQUIPMENT  
CONTROL THEORY  
DYNAMIC CONTROL  
ELECTRONIC CONTROL  
FEEDBACK AMPLIFIERS  
FEEDBACK CIRCUITS  
FEEDBACK FREQUENCY MODULATION  
KALMAN-SCHMIDT FILTERING  
LEARNING MACHINES  
NEGATIVE FEEDBACK  
NONLINEAR FEEDBACK  
OPTIMAL CONTROL  
PROPORTIONAL CONTROL  
SERVOCONTROL  
SERVO MECHANISMS  
FEEDBACK FREQUENCY MODULATION  
0702 0705 1002  
UP FBPM (MODULATION)  
BT FREQUENCY MODULATION  
#MODULATION  
BT FEEDBACK AMPLIFIERS  
FEEDBACK CONTROL  
PHASE LOCKED SYSTEMS  
FEEDERS  
0705  
(FOR FLUID AND PARTICULATE MATERIALS)  
RT CONVEYORS  
DISPENSERS  
DISTRIBUTORS  
FEEDING (SUPPLYING)  
FUEL SYSTEMS  
INJECTORS

# NASA THESAURUS (ALPHABETICAL LISTING)

#INTAKE SYSTEMS  
LOADING OPERATIONS  
MATERIALS HANDLING  
MIXERS  
FEEDFORWARD CONTROL  
1003  
BT #AUTOMATIC CONTROL  
RT ADAPTIVE CONTROL  
AUTOMATION  
CONTROL THEORY  
FEEDBACK CIRCUITS  
OPTIMAL CONTROL  
FEEDING (SUPPLYING)  
0404 0505 0702 1502 1504 2801 2808  
RT FEEDERS  
#INJECTION  
INPUT  
LOADING  
MATERIALS HANDLING  
FEEDING DEVICES  
USE ANTENNA FEEDS  
FEEL  
USE SENSORY FEEDBACK  
FELDSPARS  
1806  
BT #ALUMINUM COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
RT ANDESITE  
ANORTHOSITE  
IGNEOUS ROCKS  
FELLOWSHIP AIRCRAFT  
USE P-28 TRANSPORT AIRCRAFT  
FELSITE  
USE IGNEOUS ROCKS  
FELTS  
1811  
BT FABRICS  
RT WOOL  
FEMALES  
0401 0402 0404 0506  
UP WOMEN  
RT CHILDREN  
HUMAN BEINGS  
MALES  
SEX  
FEMUR  
0404  
BT #ANATOMY  
BONES  
MUSCULOSKELETAL SYSTEM  
RT KNEE (ANATOMY)  
LEG (ANATOMY)  
FENCES  
0102 0705 0709 1109  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIRFOIL FENCES  
FENCES (BARRIERS)  
TRACKING STATIONS  
FENCES (BARRIERS)  
1108  
RT #BOUNDARIES  
FENCES  
GATES (OPENINGS)  
FERNAT PRINCIPLE  
0710 2306 2310 2402  
RT ELECTROMAGNETIC WAVE TRANSMISSION  
LIGHT TRANSMISSION  
MULTIPATH TRANSMISSION  
OPTICAL THICKNESS  
VELOCITY  
FERMENTATION  
0403 0409 0603  
BT #CHEMICAL REACTIONS  
ENZYME ACTIVITY  
#METABOLISM  
RT BUTYRIC ACID  
FERMI-DIRAC STATISTICS  
USE QUANTUM STATISTICS  
FERMI LIQUIDS  
0603 1202 2303 2311  
BT CRYOGENIC FLUIDS  
#LIQUIDS  
RT CRYOGENICS  
FERMI STATISTICS  
USE QUANTUM STATISTICS  
FERMI SURFACES  
0604 1704 2403 2601  
RT BRILLOUIN ZONES



# NASA THESAURUS (ALPHABETICAL LISTING)

CYCLOTRON RESONANCE  
ENERGY LEVELS  
MAGNETORESISTIVITY  
SURFACES  
TRANSITION PROBABILITIES

**FERRIONS**  
1905 2401 2403  
NT ANTINEUTRINOS  
BARYON RESONANCES  
COLD NEUTRONS  
ETA-MESONS  
FAST NEUTRONS  
HYPERONS  
LEPTONS  
MESON RESONANCES  
MESONS  
NEUTRONS  
PHOTONEUTRONS  
PROTONS  
RECOIL PROTONS  
SOLAR PROTONS  
THERMAL NEUTRONS  
BT ELEMENTARY PARTICLES  
#PARTICLES  
RT PAULI EXCLUSION PRINCIPLE  
QUANTUM STATISTICS

**FERRIUM**  
0603 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSURANIUM ELEMENTS

**FERRANTI MERCURY COMPUTER**  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS

**FERRATES**  
0603 1804  
NT BARIUM FERRATES  
BT #IRON COMPOUNDS

**FERRIC ION**  
0603 1804  
BT CATIONS  
CHARGED PARTICLES  
#IONS  
METAL IONS  
#PARTICLES

**FERRIMAGNETIC MATERIALS**  
1704 2305 2307  
BT #MAGNETIC MATERIALS  
RT FERROMAGNETIC MATERIALS

**FERRIMAGNETISM**  
2305 2307  
BT #MAGNETIC PROPERTIES  
RT FERRIMAGNETS  
MAGNONS

**FERRIMAGNETS**  
2305 2307  
BT #MAGNETS  
RT FERRIMAGNETISM

**FERRITES**  
1701 2305 2307  
BT #IRON COMPOUNDS  
RT AUSTENITE  
GYRATORS  
IRON ALLOYS  
MAGNETIC CORES  
MICROSTRUCTURE  
PEARLITE  
SPINEL  
STEELS  
YTTRIUM-ALUMINUM GARNET  
YTTRIUM-IRON GARNET

**FERROCENES**  
1808 1810  
NT ALKYLFERROCENE  
BT #IRON COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS

**FERROELECTRICITY**  
2304 2307  
BT #ELECTRICAL PROPERTIES  
RT ANTIFERROELECTRICITY  
CURIE TEMPERATURE  
DIELECTRIC PROPERTIES  
MICROWAVE SWITCHING

**FERROMAGNETIC FILMS**  
2305 2307

BT FERROMAGNETIC MATERIALS  
#MAGNETIC MATERIALS  
THIN FILMS

**FERROMAGNETIC MATERIALS**  
2305 2307  
NT FERROMAGNETIC FILMS  
MAGNETITE  
FERRALLOYS (TRADEMARK)  
BT #MAGNETIC MATERIALS  
RT FERRIMAGNETIC MATERIALS  
#MAGNETS  
YOKES

**FERROMAGNETIC RESONANCE**  
2305 2309  
BT MAGNETIC RESONANCE  
#RESONANCE  
RT #MAGNETIC FIELDS  
PARAMAGNETIC RESONANCE

**FERROMAGNETISM**  
2305 2307  
UP ISING MODEL  
BT #MAGNETIC PROPERTIES  
RT ANTIFERROMAGNETISM  
CURIE TEMPERATURE  
CURIE-WEISS LAW  
DIAMAGNETISM  
LANGEVIN FORMULA  
MAGNETIC CORES  
MAGNETIC DISPERSION  
#MAGNETS  
MAGNONS

**FERROUS METALS**  
1701 1703 1704  
BT #METALS  
RT #ALLOYS  
#CHEMICAL ELEMENTS  
IRON  
IRON ISOTOPES  
METALLURGY

**FERRY SPACECRAFT**  
3110  
UP SPACE BUSES  
BT #MANEUVERABLE SPACECRAFT  
#MANNED SPACECRAFT  
RT ASTRO VEHICLE  
CARGO SPACECRAFT  
MARS (MANNED REUSABLE SPACECRAFT)  
#REENTRY VEHICLES  
RENDEZVOUS SPACECRAFT  
REUSABLE SPACECRAFT  
#SOFT LANDING SPACECRAFT  
SPACE STATIONS

**FERTILITY**  
0404  
RT REPRODUCTIVE SYSTEMS

**FERTILIZATION**  
0404 0409  
RT #RECOMBINATION REACTIONS  
REPRODUCTION

**FERTILIZERS**  
0404 0409 0505  
RT AMMONIA  
AMMONIUM NITRATES  
ASHES  
CULTIVATION  
UREAS

**FET (TRANSISTORS)**  
USE FIELD EFFECT TRANSISTORS

**PETUSES**  
0402 0404  
UP PORTUSES  
RT EGGS  
EMBRYOLOGY  
EMBRYOS  
REPRODUCTIVE SYSTEMS

**FEVER**  
0404 0405 0408  
RT HYPERTHERMIA

**FEYNMAN DIAGRAMS**  
2402 2403  
BT DIAGRAMS  
RT ELECTROMAGNETIC INTERACTIONS  
MINKOWSKI SPACE  
#PARTICLE INTERACTIONS  
QUANTUM ELECTRODYNAMICS

**FFAR ROCKET VEHICLE**  
USE FOLDING FIN AIRCRAFT ROCKET VEHICLE

**PH-1100 HELICOPTER**  
USE OH-5 HELICOPTER

**FIAT AIRCRAFT**  
0204 0206 0207  
NT FIAT 7002 HELICOPTER

**FIBRINOGEN**  
G-95/4 AIRCRAFT  
G-91 AIRCRAFT  
G-222 AIRCRAFT  
RT AIRCRAFT  
FIAT G-95/4 AIRCRAFT  
USE G-95/4 AIRCRAFT  
FIAT G-91 AIRCRAFT  
USE G-91 AIRCRAFT  
FIAT G-222 AIRCRAFT  
USE G-222 AIRCRAFT  
FIAT 7002 HELICOPTER  
0204 0206  
BT FIAT AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT

**FIBER OPTICS**  
0702 2310  
RT CASSEGRAIN OPTICS  
CRYSTAL OPTICS  
#ELECTRON TUBES  
LIGHT TRANSMISSION  
OPTICS  
PHYSICAL OPTICS  
VIDEONS

**FIBER STRENGTH**  
1507 3202 3203  
BT #MECHANICAL PROPERTIES  
RT BENDING  
COMPRESSIVE STRENGTH  
HOOKES LAW  
POISSON RATIO  
SHEAR STRENGTH  
TENSILE STRENGTH

**FIBERGLASS**  
USE GLASS FIBERS

**#FIBERS**  
0403 1507 1704 1804 1805 3202  
UP FIBROUS MATERIALS  
REPRASIL (TRADEMARK)  
NT CARBON FIBERS  
COTTON FIBERS  
DACRON (TRADEMARK)  
FORTISAN (TRADEMARK)  
GLASS FIBERS  
HAIR  
LINEN  
MICROFIBERS  
NYLON (TRADEMARK)  
RAYON  
REINFORCING FIBERS  
SILK  
SYNTHETIC FIBERS  
VICOR  
WOOL  
RT #COMPOSITE MATERIALS  
CORDAGE  
FABRICS  
FILAMENTS  
METAL MATRIX COMPOSITES  
PAPERS  
POLYMERIC FILMS  
SLIVERS  
STRANDS  
TEXTILES  
WHISKERS (SINGLE CRYSTALS)  
YARNS

**FIBERS (MATHEMATICS)**  
1902  
RT CANONICAL FORMS  
DIMENSIONAL ANALYSIS  
FUNCTION SPACE  
FUNCTIONAL SPACE  
GROUP THEORY  
HOMOTOPY THEORY  
MANIFOLDS (MATHEMATICS)  
TOPOLOGY

**FIBRILLATION**  
0404 0405 0409  
RT HEART DISEASES  
MUSCLES  
SEISMOCARDIOGRAPHY

**FIBRIN**  
0403 0404 0405 1808  
BT #PROTEINS

**FIBRINOGEN**  
0403 0404 0405 1808  
BT #PROTEINS  
RT HEOSTATICS

# FIBROBLASTS

HOMEOSTASIS  
THROMBIN  
FIBROBLASTS  
0404 0406  
NT COLLAGENS  
RT #CELLS (BIOLOGY)  
RT CYTOPLASM  
TENDONS  
TISSUES (BIOLOGY)  
FIBROSIS  
0404  
NT CYSTIC FIBROSIS  
BT #DISEASES  
RT TISSUES (BIOLOGY)  
FIBROUS MATERIALS  
USE #FIBERS  
FICKS EQUATION  
0603 2403  
RT #DIFFUSION  
DIFFUSION COEFFICIENT  
EQUATIONS  
TAPEL LAW  
FIDELITY  
USE ACCURACY  
FIDUCIARIES  
3402  
RT ECONOMICS  
FINANCE  
#MANAGEMENT  
FIELD ARMY BALLISTIC MISSILE DEFENSE SYS  
3101 3401  
UP FABRDS  
RT MILITARY TECHNOLOGY  
FIELD ARMY BALLISTIC MISSILES  
3101  
NT SUBROC MISSILE  
BT BALLISTIC MISSILES  
#MISSILES  
RT INTERMEDIATE RANGE BALLISTIC  
MISSILES  
SHORT RANGE BALLISTIC MISSILES  
FIELD COILS  
2307  
UP MAGNETIC FIELD COILS  
BT MAGNET COILS  
MAGNETIC COILS  
RT ELECTROMAGNETS  
HELICAL INDUCERS  
FIELD EFFECT TRANSISTORS  
0903 0905 0906 1002  
UP CASCODE MOSPET  
PET (TRANSISTORS)  
MOSPET  
UNIPOLAR TRANSISTORS  
BT #ELECTRONIC EQUIPMENT  
SOLID STATE DEVICES  
TRANSISTORS  
FIELD EMISSION  
2304 2403 2603  
BT #DECAY  
ELECTRON EMISSION  
EMISSION  
PARTICLE EMISSION  
RT ELECTRIC FIELDS  
ELECTRON MICROSCOPES  
#MAGNETIC FIELDS  
SECONDARY EMISSION  
ZENER EFFECT  
FIELD INTENSITY METERS  
0705 0904 1406  
(EMPLOY THIS TERM WHEN TYPE OF FIELD  
INVOLVED IS NOT SPECIFIED--OTHERWISE  
USE A MORE SPECIFIC TERM)  
BT #MEASURING INSTRUMENTS  
RT ACTINOMETERS  
FLUX DENSITY  
MAGNETOMETERS  
NOISE METERS  
FIELD IONIZATION SOURCES  
USE BRUSHES  
FIELD MODE THEORY  
2309 2311  
RT THEORIES  
FIELD STRENGTH  
1309 2304 2307  
NT ELECTRIC FIELD STRENGTH  
MAGNETIC FLUX  
RT #ACOUSTIC PROPERTIES  
DIRECTIVITY  
ELECTRIC FIELDS  
#ELECTRICAL PROPERTIES  
ELECTROMAGNETIC FIELDS

FIELD THEORY (PHYSICS)  
FLUX DENSITY  
GRAVITATIONAL FIELDS  
ISOTROPY  
#MAGNETIC FIELDS  
#MAGNETIC PROPERTIES  
ORIENTATION  
PERMITTIVITY  
FIELD THEORY (ALGEBRA)  
1902  
NT CUBIC EQUATIONS  
QUADRATIC EQUATIONS  
RT FIELDS  
GREEN FUNCTION  
HOMOMORPHISMS  
NONLINEAR EQUATIONS  
THEORIES  
FIELD THEORY (PHYSICS)  
1902 2306 2402 2403  
UP AMBIT  
FORCE FIELDS  
WIGHTMAN THEORY  
BT #NUCLEAR PHYSICS  
RT ANTENNA RADIATION PATTERNS  
BOSON FIELDS  
CLOSURE LAW  
CROSSED FIELDS  
DIRAC EQUATION  
#DISTRIBUTION (PROPERTY)  
DYNAMICS  
ELECTROMAGNETIC FIELDS  
PAR FIELDS  
FIELD STRENGTH  
FIELDS  
FLOW DISTRIBUTION  
FLUX (RATE)  
FLUX DENSITY  
FUNCTION SPACE  
GEOMAGNETISM  
GRAVITATIONAL FIELDS  
GREEN FUNCTION  
#MAGNETIC FIELDS  
MAGNETOSTATIC FIELDS  
MANY BODY PROBLEM  
MULTIPOLAR FIELDS  
#NUCLEAR PHYSICS  
NULL ZONES  
POHREANCHUK THEOREM  
POTENTIAL FIELDS  
PRESSURE DISTRIBUTION  
QUANTUM ELECTRODYNAMICS  
QUANTUM THEORY  
RADIATION DISTRIBUTION  
RELATIVITY  
SELF CONSISTENT FIELDS  
SOUND FIELDS  
TEMPERATURE DISTRIBUTION  
TENSORS  
THEORIES  
TRAVELING CHARGE  
FIELDS  
0409 1101 1902 2311 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BOSON FIELDS  
ELECTRIC FIELDS  
FIELD THEORY (ALGEBRA)  
FIELD THEORY (PHYSICS)  
GRAVITATIONAL FIELDS  
#MAGNETIC FIELDS  
MILITARY AIR FACILITIES  
SELF CONSISTENT FIELDS  
VISUAL FIELDS  
FIGHTER AIRCRAFT  
0207 3401  
UP INTERCEPTOR AIRCRAFT  
VTO FIGHTER AIRCRAFT  
NT P-14 AIRCRAFT  
P-15 AIRCRAFT  
HARRIER AIRCRAFT  
JAGUAR AIRCRAFT  
RT ATTACK AIRCRAFT  
INTERCEPTORS  
#JET AIRCRAFT  
MILITARY AIRCRAFT  
PANAVIA MILITARY AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TRAINING AIRCRAFT  
#V/STOL AIRCRAFT  
FIGURE OF MERIT  
1406

# NASA THESAURUS (ALPHABETICAL LISTING)

RT ACCEPTABILITY  
ANALYZING  
CRITERIA  
#EFFICIENCY  
EVALUATION  
PERFORMANCE  
Q FACTORS  
QUALITY  
#SELECTION  
VALUE  
FILAMENT WINDING  
1507 3202  
BT WINDING  
RT COMPOSITE WRAPPING  
ISOTENSOID STRUCTURES  
LAMINATES  
PREIMPREGNATION  
FILAMENTS  
0903 0904 1504 1507 1704 1811  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CARBON FIBERS  
CATHODES  
CORDAGE  
#FIBERS  
IONIZERS  
RESISTORS  
STRANDS  
WHISKERS (SINGLE CRYSTALS)  
#WIRE  
FILES  
1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DOCUMENT STORAGE  
FILES (TOOLS)  
FILES (TOOLS)  
1504  
BT #TOOLS  
RT ABRASION  
FILES  
SCRAPERS  
FILLERS  
1704 1805  
RT #ADDITIVES  
CELLS  
DOSES  
OPACIFIERS  
PAINTS  
PIGMENTS  
PRIMERS (COATINGS)  
REINFORCEMENT (STRUCTURES)  
#RESINS  
SEALERS  
SIZING MATERIALS  
VARNISHES  
FILLETS  
0102 1507  
RT PAIRINGS  
#JOINTS (JUNCTIONS)  
SEAMS (JOINTS)  
#WELDING  
FILLING  
1504 3407  
BT REFILLING  
RT ACCUMULATIONS  
CHARGING  
EXTENSIONS  
#INJECTION  
INPUT  
LOADING  
REPLENISHMENT  
SUPPLYING  
FILM BOILING  
1802 3303  
BT BOILING  
#PHASE TRANSFORMATIONS  
VAPORIZING  
RT HEAT TRANSFER  
LEIDENFROST PHENOMENON  
NUCLEATE BOILING  
FILM CONDENSATION  
1802 3303  
BT CONDENSING  
RT CONDENSERS (LIQUIFIERS)  
#COOLING  
HEAT TRANSFER  
FILM COOLING  
1802 3303  
BT #COOLING

# NASA THESAURUS (ALPHABETICAL LISTING)

EVAPORATIVE COOLING  
 LIQUID COOLING  
 RT LIQUID INJECTION  
 SURFACE COOLING  
 SWEAT COOLING  
 FILM THICKNESS  
 1802  
 BT #DIMENSIONS  
 THICKNESS  
 FILMS  
 1407 1704 1802 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #COATINGS  
 CORROSION PREVENTION  
 ELECTRODE FILM BARRIERS  
 FABRICS  
 FLUID FILMS  
 HELIUM FILM  
 KAPTON (TRADEMARK)  
 LAMINATES  
 MAGNETIC FILMS  
 #MEMBRANES  
 METAL FILMS  
 MONOMOLECULAR FILMS  
 PAPERS  
 PHOTOGRAPHIC FILM  
 POLYMERIC FILMS  
 SEMICONDUCTING FILMS  
 SILICON FILMS  
 THICK FILMS  
 THIN FILMS  
 WEBS (SHEETS)  
 FILTERING  
 USE FILTRATION  
 FILTERS  
 0710 0902 0904 0905 1001 1504 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ABSORBERS (MATERIALS)  
 ADAPTIVE FILTERS  
 #ATTENUATORS  
 BANDPASS FILTERS  
 DIGITAL FILTERS  
 #ELECTRIC FILTERS  
 ELECTROMAGNETIC WAVE FILTERS  
 ELECTRONIC FILTERS  
 FLUID FILTERS  
 HIGH PASS FILTERS  
 IMAGE FILTERS  
 LINEAR FILTERS  
 LOW PASS FILTERS  
 MONOCHROMATIC RADIATION  
 NONLINEAR FILTERS  
 RADIO FILTERS  
 #SEPARATORS  
 FILTRATION  
 0505 0602 1504 3404 3407  
 UP FILTERING  
 NT SPATIAL FILTERING  
 RT BEDS (PROCESS ENGINEERING)  
 BENEFICIATION  
 CONCENTRATING  
 CONCENTRATION  
 CONCENTRATORS  
 EFFLUENTS  
 EXTRACTION  
 FLUID FILTERS  
 HYDROMETALLURGY  
 MATERIALS RECOVERY  
 PERCOLATION  
 PRECIPITATION (CHEMISTRY)  
 SCREENING  
 SEPARATION  
 SIZE SEPARATION  
 WATER TREATMENT  
 FIN STABILIZERS  
 USE FINS  
 STABILIZERS (FLUID DYNAMICS)  
 FINANCE  
 3402  
 RT COMMERCE  
 FIDUCIARIES  
 INVESTMENTS  
 MANAGEMENT PLANNING  
 MARKETING  
 RISK  
 WAGE SURVEYS  
 FINANCIAL MANAGEMENT  
 3402 3406

BT #MANAGEMENT  
 RT ALLOCATIONS  
 BUDGETING  
 COST ANALYSIS  
 COST ESTIMATES  
 COSTS  
 ECONOMY  
 FEDERAL BUDGETS  
 PROCUREMENT MANAGEMENT  
 FINE  
 1406 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FINE STRUCTURE  
 FINESS  
 FINESS RATIO  
 FINES  
 FINE STRUCTURE  
 1411 2306 2401 2402 2403  
 UP MULTIPLETS  
 RT ALPHA DECAY  
 FINE  
 HYPERFINE STRUCTURE  
 LINE SPECTRA  
 SPECTRAL ENERGY DISTRIBUTION  
 STRUCTURES  
 FINESS  
 0101 1406 3408  
 RT COARSENESS  
 FINE  
 FINESS RATIO  
 PARTICLE SIZE DISTRIBUTION  
 PURITY  
 QUALITY  
 SIZE (DIMENSIONS)  
 TEXTURES  
 FINESS RATIO  
 0101 1406 3408  
 UP LOW FINESS RATIO  
 BT #RATIOS  
 RT ASPECT RATIO  
 #DIMENSIONS  
 FINE  
 FINESS  
 OBLATE SPHEROIDS  
 SLENDER BODIES  
 THICKNESS RATIO  
 FINES  
 1704 1805  
 BT #PARTICLES  
 POWDER (PARTICLES)  
 RT FINE  
 FLOUR  
 FRACTIONS  
 PARTICLE SIZE DISTRIBUTION  
 SCREENING  
 FINGERS  
 0404  
 BT #ANATOMY  
 RT HAND (ANATOMY)  
 SENSE ORGANS  
 FINISHES  
 0602 0604 1504 1704 1802  
 NT ENAMELS  
 GLAZES  
 LACQUERS  
 RT CERAMIC COATINGS  
 #COATINGS  
 CORROSION  
 DOPES  
 IMPREGNATING  
 #MACHINING  
 METALLIZING  
 PAINTS  
 PLATING  
 #POLISHING  
 PRIMERS (COATINGS)  
 PROTECTIVE COATINGS  
 SIZING (SURFACE TREATMENT)  
 SPRAYED COATINGS  
 SURFACE FINISHING  
 #SURFACE PROPERTIES  
 VARNISHES  
 VENEERS  
 WAXES  
 FINITE DIFFERENCE THEORY  
 1902  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT DIFFERENCE EQUATIONS  
 DIFFERENCES

## FIRE PREVENTION

EXTRAPOLATION  
 INTERPOLATION  
 SIGNIFICANCE  
 THEORIES  
 FINITE ELEMENT METHOD  
 1902 1903 3203  
 BT APPROXIMATION  
 PROCEDURES  
 RT APPLICATIONS OF MATHEMATICS  
 BOUNDARY VALUE PROBLEMS  
 CONJUGATES  
 FRACTURE MECHANICS  
 ITERATIVE SOLUTION  
 MATRICES (MATHEMATICS)  
 FINITE-STATE MACHINES  
 USE TURING MACHINES  
 FINLAND  
 1305  
 RT EUROPE  
 NATIONS  
 PINNED BODIES  
 0102  
 RT AERODYNAMIC CONFIGURATIONS  
 BODIES  
 BODIES OF REVOLUTION  
 COOLING FINS  
 FINS  
 HEAT EXCHANGERS  
 MISSILE BODIES  
 PROJECTILES  
 #SYMMETRICAL BODIES  
 FINS  
 0102 2806 2808  
 UP FIN STABILIZERS  
 HORIZONTAL FINS  
 VERTICAL FINS  
 RT COOLING FINS  
 RT AERIAL RUDDERS  
 #AIRFOILS  
 AIRFRAMES  
 BLADES  
 #CONTROL SURFACES  
 FINNED BODIES  
 HYDROFOILS  
 MISSILE COMPONENTS  
 RUDDERS  
 SAILS  
 STABILIZERS (FLUID DYNAMICS)  
 TAIL ASSEMBLIES  
 #VANES  
 FIRE CONTROL  
 0203 0603 3301 3404  
 (LIMITED TO CONTROL OF THE FIRING OF  
 WEAPONS--EXCLUDES FIRE PREVENTION AND  
 FIRE FIGHTING)  
 RT BOMBING EQUIPMENT  
 CONTROL  
 FIRE CONTROL CIRCUITS  
 #FIRING (IGNITING)  
 GUNFIRE  
 RANGE FINDERS  
 #WEAPON SYSTEMS  
 #WEAPONS  
 FIRE CONTROL CIRCUITS  
 0902  
 BT #CIRCUITS  
 RT FIRE CONTROL  
 FIRE EXTINGUISHERS  
 0203 0603 1504 3301  
 UP CHEMICAL EXTINGUISHERS  
 EXTINGUISHERS  
 RT FIRE FIGHTING  
 FIRE PREVENTION  
 FIRE FIGHTING  
 1103 1106  
 (EXCLUDES FIRE CONTROL--CONTROL OF THE  
 FIRING OF WEAPONS)  
 RT FIRE EXTINGUISHERS  
 FIRE PREVENTION  
 FIRE POINT  
 3301  
 RT FLAMMABILITY  
 FLASH POINT  
 SPONTANEOUS COMBUSTION  
 FIRE PREVENTION  
 0603 3301  
 (EXCLUDES FIRE CONTROL--CONTROL OF THE  
 FIRING OF WEAPONS)  
 BT PREVENTION  
 RT ACCIDENT PREVENTION  
 FIRE EXTINGUISHERS  
 FIRE FIGHTING

# FIREBALLS

FIREPROOFING  
 FIRES  
 HIGH PRESSURE OXYGEN  
 SAFETY  
 SAFETY DEVICES  
 SAFETY MANAGEMENT  
 SPONTANEOUS COMBUSTION  
 WARNING  
 #WARNING SYSTEMS  
 FIREBALLS  
 3005  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOLIDES  
 NUCLEAR EXPLOSIONS  
 FIREBEE 2 TARGET DRONE AIRCRAFT  
 0205 0207 3401  
 BT DRONE AIRCRAFT  
 #DRONE VEHICLES  
 #PILOTLESS AIRCRAFT  
 RESEARCH AIRCRAFT  
 RYAN AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 TARGET DRONE AIRCRAFT  
 RT AIRCRAFT  
 LIGHT AIRCRAFT  
 MILITARY AIRCRAFT  
 #TARGETS  
 WINGED VEHICLES  
 FIREPROOFING  
 0508 0602 0603 3301  
 RT FIRE PREVENTION  
 NONFLAMMABLE MATERIALS  
 SAFETY  
 FIRES  
 0603 3301  
 RT ACCIDENTS  
 BURNS (INJURIES)  
 #COMBUSTION  
 #CONTROL SURFACES  
 DEFLAGRATION  
 #EXPLOSIONS  
 EXPLOSIVES  
 FIRE PREVENTION  
 #FIRING (IGNITING)  
 FLAMES  
 FLASHBACK  
 #HAZARDS  
 SAFETY  
 SAINT ELMO FIRE  
 #WARNING SYSTEMS  
 FIREWORKS  
 USE PYROTECHNICS  
 #FIRING (IGNITING)  
 2808 3102 3301 3302 3407  
 UP MISFIRES  
 RT RETROFIRING  
 ROCKET FIRING  
 STATIC FIRING  
 TEST FIRING  
 RT BURNING TIME  
 DETONABLE GAS MIXTURES  
 DETONATION  
 DRYING  
 FIRE CONTROL  
 FIRES  
 FLAMMABLE GASES  
 GUNFIRE  
 IGNITION  
 STARTING  
 FIRING TIME  
 USE BURNING TIME  
 FIRST AID  
 0401 0405  
 RT ACCIDENTS  
 CURES  
 KITS  
 #MEDICAL EQUIPMENT  
 #MEDICAL SCIENCE  
 MEDICAL SERVICES  
 RESUSCITATION  
 SPLINTS  
 STRETCHERS  
 TOURNIQUETS  
 FISH  
 USE FISHES  
 FISHBOWL OPERATION  
 3302 3304 3401  
 RT HIGH ALTITUDE TESTS  
 NUCLEAR EXPLOSIONS  
 OPERATIONS

VELA SATELLITES  
 FISHES  
 0402 1310  
 UP FISH  
 BT SCHOOLS (FISH)  
 SHARKS  
 BT #ANIMALS  
 VERTEBRATES  
 RT EARTH RESOURCES  
 FOOD  
 ICHTHYOLOGY  
 NUTRIENTS  
 FISHTAILING  
 USE YAW  
 MISSILE MATERIALS  
 USE FISSIONABLE MATERIALS  
 FISSION  
 2405 2406 3407  
 RT NUCLEAR FUELS  
 SPLITTING  
 FISSION ELECTRIC CELLS  
 0302 2201 2203  
 NT SNAP 10A  
 SNAP 2  
 SNAP 4  
 SNAP 8  
 BT #AUXILIARY POWER SOURCES  
 NUCLEAR AUXILIARY POWER UNITS  
 #NUCLEAR ELECTRIC POWER GENERATION  
 NUCLEAR POWER REACTORS  
 #NUCLEAR REACTORS  
 SNAP  
 SPACE POWER UNIT REACTORS  
 RT ELECTRIC CELLS  
 RADIOISOTOPE BATTERIES  
 FISSION PRODUCTS  
 2203 2402 2403  
 RT FALLOUT  
 HIGH ENERGY INTERACTIONS  
 NUCLEAR FISSION  
 NUCLEAR PARTICLES  
 NUCLEAR RADIATION  
 RADIOACTIVE MATERIALS  
 RADIOACTIVE WASTES  
 RADIOACTIVITY  
 FISSION WEAPONS  
 2205 2405 2406 3401  
 UP ATOMIC BOMBS  
 BT NUCLEAR WEAPONS  
 #WEAPONS  
 RT FALLOUT  
 THERMONUCLEAR EXPLOSIONS  
 FISSIONABLE MATERIALS  
 1703 1805 2405  
 UP FISSIONABLE MATERIALS  
 RT GASEOUS FISSION REACTORS  
 MATERIALS  
 NOZZLE FLOW  
 NUCLEAR FUELS  
 PLUTONIUM  
 RADIOACTIVE MATERIALS  
 URANIUM  
 FISSION  
 1701 1704  
 BT #FUELS  
 NUCLEAR FUELS  
 FITNESS  
 0405 0408 0502  
 RT FLIGHT FITNESS  
 PHYSICAL FITNESS  
 BT QUALIFICATIONS  
 FITTING  
 1504  
 RT #ADAPTATION  
 ADJUSTING  
 ALIGNMENT  
 ASSEMBLING  
 FITTINGS  
 JOINING  
 MATCHING  
 POSITIONING  
 FITTINGS  
 1504  
 RT ACCESSORIES  
 ADAPTERS  
 CLOSURES  
 CONNECTORS  
 COUPLINGS  
 EXTENSIONS  
 #FASTENERS  
 FITTING  
 INSERTS

# NASA THESAURUS (ALPHABETICAL LISTING)

#JOINTS (JUNCTIONS)  
 LINKAGES  
 SLEEVES  
 U BENDS  
 UNIONS (CONNECTORS)  
 FITZGERALD-LORENTZ CONTRACTION  
 USE LORENTZ CONTRACTION  
 FIX  
 USE FIXING  
 FIXED POINTS (MATHEMATICS)  
 0802 1902  
 BT #GEOMETRY  
 POINTS (MATHEMATICS)  
 TOPOLOGY  
 RT MANIFOLDS (MATHEMATICS)  
 MAPPING  
 FIXED-WING AIRCRAFT  
 USE AIRCRAFT CONFIGURATIONS  
 FIXED WINGS  
 FIXED WINGS  
 0104 0202  
 UP FIXED-WING AIRCRAFT  
 BT #AIRFOILS  
 WINGS  
 RT CAMBERED WINGS  
 CRUCIFORM WINGS  
 FLEXIBLE WINGS  
 LOW ASPECT RATIO WINGS  
 RIGID WINGS  
 SLENDER WINGS  
 SWEEP WINGS  
 THIN WINGS  
 TWISTED WINGS  
 UNCAMBERED WINGS  
 UNSWEEP WINGS  
 FIXING  
 1407 1504 3404 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP FIX  
 RT MAINTENANCE  
 #NAVIGATION  
 POSITION (LOCATION)  
 POSITIONING  
 FIXTURES  
 1504  
 RT BRACKETS  
 HARDWARE  
 JIGS  
 LUMINAIRES  
 #TOOLS  
 PIZEAU EFFECT  
 2306 2310 2311  
 RT DOPPLER EFFECT  
 DOPPLER-PIZEAU EFFECT  
 FLAGELLATA  
 0404 0407  
 NT COLPIDIA  
 TRYPAEOSOME  
 BT #ANIMALS  
 INVERTEBRATES  
 #MICROORGANISMS  
 PROTOZOA  
 FLAKES  
 1503 1504 1702 1704 1805 3404  
 BT #PARTICLES  
 RT FLAKING  
 METAL POWDER  
 POWDER (PARTICLES)  
 FLAKING  
 1503 1504 3404  
 RT ATOMIZING  
 CHIPPING  
 COMMINUTION  
 CUTTING  
 DISINTEGRATION  
 FLAKES  
 FRACTURING  
 PEELING  
 SEPARATION  
 SPLITTING  
 WEAR  
 FLAME CALORIMETERS  
 1408  
 BT CALORIMETERS  
 #MEASURING INSTRUMENTS  
 RT BOMB CALORIMETERS  
 DROP CALORIMETERS  
 HEAT MEASUREMENT  
 HIGH TEMPERATURE TESTS

# NASA THESAURUS (ALPHABETICAL LISTING)

TEMPERATURE MEASURING INSTRUMENTS  
 PLANE DEFLECTORS  
 2806 2808 3103  
 BT DEFLECTORS  
 RT BAPFLES  
 BLAST DEFLECTORS  
 DIVERTERS  
 FLASHBACK  
 LAUNCHING PADS  
 SAFETY DEVICES  
 #SHIELDING  
 TEST STANDS  
 PLANE FRONTS  
 USE PLANE PROPAGATION  
 PLANE HOLDERS  
 1504 3301  
 BT HOLDERS  
 RT COMBUSTION CHAMBERS  
 PLANEOUT  
 FLAMES  
 PLANE INTERACTION  
 USE #CHEMICAL REACTIONS  
 PLANE PROPAGATION  
 PLANE IONIZATION  
 0602 3301  
 BT GAS IONIZATION  
 #IONIZATION  
 RT PLANE TEMPERATURE  
 PLANE PLATING  
 0602 1704 1802  
 BT PLATING  
 RT COATING  
 PLANE SPRAYING  
 #WELDING  
 PLANE PROBES  
 0601 0602 3301  
 BT #MEASURING INSTRUMENTS  
 RT PLANE TEMPERATURE  
 GAS ANALYSIS  
 MANOMETERS  
 TEMPERATURE MEASURING INSTRUMENTS  
 PLANE PROPAGATION  
 0602 1203 3301  
 UP CHAPMAN-JOUGET FLAME  
 COMBUSTION WAVES  
 PLANE FRONTS  
 PLANE INTERACTION  
 BT PROPAGATION (EXTENSION)  
 RT BOUNDARY LAYER COMBUSTION  
 BURNING RATE  
 COMBUSTIBLE FLOW  
 #COMBUSTION  
 COMBUSTION PHYSICS  
 DETONATION  
 DETONATION WAVES  
 #EXPLOSIONS  
 PLANE STABILITY  
 FLAMES  
 FLAMMABILITY  
 FLASHBACK  
 GAS EXPLOSIONS  
 GAS-METAL INTERACTIONS  
 IGNITION  
 PREMIXED FLAMES  
 PRESSURE OSCILLATIONS  
 PRESSURE PULSES  
 PROPAGATION  
 PLANE QUENCHING  
 USE EXTINGUISHING  
 QUENCHING (COOLING)  
 PLANE SPRAYING  
 0602 3301  
 BT SPRAYING  
 RT COATING  
 #COATINGS  
 PLANE PLATING  
 METAL SPRAYING  
 METALLIZING  
 PLASMA SPRAYING  
 PLANE STABILITY  
 0603 1203 3301  
 BT COMBUSTION STABILITY  
 #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 FLOW CHARACTERISTICS  
 FLOW STABILITY  
 MOTION STABILITY  
 #STABILITY  
 RT PLANE PROPAGATION  
 PLANEOUT  
 PLANE TEMPERATURE  
 0603 3301

BT #TEMPERATURE  
 RT COMBUSTION TEMPERATURE  
 PLANE IONIZATION  
 PLANE PROBES  
 PLANEOUT  
 2805 3301  
 RT #COMBUSTION  
 COMBUSTION CHAMBERS  
 EXTINGUISHING  
 PLANE HOLDERS  
 PLANE STABILITY  
 GAS TURBINE ENGINES  
 JET ENGINES  
 FLAMES  
 2808 3002 3301 3303  
 UP JET FLAMES  
 LAMINAR FLAMES  
 NT DIFFUSION FLAMES  
 PREMIXED FLAMES  
 RT #COMBUSTION  
 FIRES  
 PLANE HOLDERS  
 PLANE PROPAGATION  
 FLARES  
 #FUELS  
 SMOG  
 FLAMMABILITY  
 0603 3301 3408  
 UP COMBUSTIBILITY  
 RT BURNING RATE  
 #COMBUSTION  
 DETONABLE GAS MIXTURES  
 FIRE POINT  
 PLANE PROPAGATION  
 FLAMMABLE GASES  
 FLASH POINT  
 IGNITION  
 IGNITION LIMITS  
 IGNITION TEMPERATURE  
 PYROPHORIC MATERIALS  
 RESISTANCE  
 SPONTANEOUS COMBUSTION  
 FLAMMABLE GASES  
 3301  
 UP EXPLOSIVE GASES  
 NT PYROGEN  
 BT #GASES  
 RT CHEMICAL EXPLOSIONS  
 DETONABLE GAS MIXTURES  
 EXPLOSIVES  
 #FIRING (IGNITING)  
 FLAMMABILITY  
 GAS EXPLOSIONS  
 #HAZARDS  
 FLANGE WRINKLING  
 1504 3203  
 BT WRINKLING  
 RT BUCKLING  
 FLANGES  
 1504  
 RT CONNECTORS  
 METAL PLATES  
 FLAP CONTROL  
 USE AIRCRAFT CONTROL  
 FLAPS (CONTROL SURFACES)  
 FLAPPING  
 0101 0201  
 RT FLAPPING HINGES  
 FLUTTER  
 RESONANT VIBRATION  
 ROTOR AERODYNAMICS  
 SHAKING  
 UNDAMPED OSCILLATIONS  
 #VIBRATION  
 WING OSCILLATIONS  
 FLAPPING HINGES  
 1504  
 BT HINGES  
 RT FLAPPING  
 ROTARY WINGS  
 ROTOR AERODYNAMICS  
 FLAPS (CONTROL SURFACES)  
 0101 0102 0104 1504  
 UP FLAP CONTROL  
 NT JET FLAPS  
 LEADING EDGE SLATS  
 SPLIT FLAPS  
 TRAILING-EDGE FLAPS  
 WING FLAPS  
 BT #AIRFOILS  
 #CONTROL SURFACES  
 RT AERODYNAMIC BRAKES

## FLASHOVER

#BRAKES (FOR ARRESTING MOTION)  
 #DRAG DEVICES  
 LIFT DEVICES  
 SPOILERS  
 FLARED BODIES  
 0102 3110  
 RT AFTERBODIES  
 AIRCRAFT CONFIGURATIONS  
 FLARES  
 SPACECRAFT CONFIGURATIONS  
 #SYMMETRICAL BODIES  
 FLARES  
 0203 1101  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FLAMES  
 FLARED BODIES  
 ILLUMINATING  
 #LIGHTING EQUIPMENT  
 LUMINAIRES  
 PYROTECHNICS  
 RUNWAY LIGHTS  
 SOLAR FLARES  
 FLASH  
 1411 2306 2310 2402 2902 3201 3302  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP LIGHT DURATION  
 RT ELECTRIC DISCHARGES  
 #EXPLOSIONS  
 FLASH WELDING  
 FLASHING (VAPORIZING)  
 LIGHT (VISIBLE RADIATION)  
 RADIOGRAPHY  
 SOLAR FLARES  
 FLASH BLINDNESS  
 0405 0408 0411 0508  
 BT BLINDNESS  
 RT EYE PROTECTION  
 LIGHT ADAPTATION  
 VISION  
 FLASH LAMPS  
 0602 3301  
 UP FLASH TUBES  
 BT #LIGHTING EQUIPMENT  
 LUMINAIRES  
 RT LIGHT SOURCES  
 XENON LAMPS  
 FLASH POINT  
 0603 1203 3301 3304  
 BT IGNITION TEMPERATURE  
 #TEMPERATURE  
 RT COMBUSTION TEMPERATURE  
 FIRE POINT  
 FLAMMABILITY  
 IGNITION  
 SPONTANEOUS COMBUSTION  
 VAPOR PRESSURE  
 VOLATILITY  
 FLASH TUBES  
 USE FLASH LAMPS  
 FLASH WELDING  
 1504 3404  
 BT #WELDING  
 RT ELECTRIC WELDING  
 FLASH  
 FUSION WELDING  
 PRESSURE WELDING  
 FLASHBACK  
 1203 3301  
 RT BACKFIRE  
 #COMBUSTION  
 DEFLAGRATION  
 #EXPLOSIONS  
 FIRES  
 PLANE DEFLECTORS  
 PLANE PROPAGATION  
 FLASHING (VAPORIZING)  
 3404  
 BT #PHASE TRANSFORMATIONS  
 VAPORIZING  
 RT DISTILLATION  
 EVAPORATION  
 FLASH  
 SEPARATION  
 FLASHOVER  
 1002 2304 3301  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT ELECTRIC ARCS

# PLASKS

ELECTRIC SPARKS  
ELECTRICAL FAULTS  
FAILURE

FLASKS  
0603  
RT BOTTLES  
GLASSWARE

FLAT CONDUCTORS  
0902 0904 0905 2305  
BT #CONDUCTORS  
RT BUS CONDUCTORS  
#CIRCUITS  
CONNECTORS  
ELECTRIC CONNECTORS  
ELECTRIC CONTACTS  
ELECTRIC WIRE  
#WIRE  
WIRING

FLAT LAYERS  
1202 1203 3302  
RT FLAT PLATES  
FLAT SURFACES  
FLATNESS  
LAYERS  
PLANAR STRUCTURES  
STRATA  
STRATIFICATION

FLAT PLATES  
0101 1202 1504 3202 3203 3303  
BT #STRUCTURAL MEMBERS  
RT ANNUAL PLATES  
BLASIUS EQUATION  
BLASIUS FLOW  
CIRCULAR PLATES  
DYNAMIC STRUCTURAL ANALYSIS  
END PLATES  
FLAT LAYERS  
FLAT SURFACES  
FLATNESS  
#FLUID MECHANICS  
HEAT TRANSFER  
METAL PLATES  
PANELS  
PARALLEL PLATES  
PLANAR STRUCTURES  
PLATE THEORY  
PLATES  
PLATES (STRUCTURAL MEMBERS)  
RECTANGULAR PLATES  
SHEETS  
SLABS  
THIN PLATES

FLAT SURFACES  
0101 1202 1305 1902 3203  
UP FACETS  
RT COSSERAT SURFACES  
FLAT LAYERS  
FLAT PLATES  
FLATNESS  
PLANAR STRUCTURES  
SURFACE GEOMETRY  
#SURFACE PROPERTIES  
SURFACES

FLATNESS  
1902 3408  
BT SHAPES  
RT CONCAVITY  
CONTOURS  
CONVEXITY  
FLAT LAYERS  
FLAT PLATES  
FLAT SURFACES  
FLATTENING  
INTERFEROMETERS  
#MECHANICAL PROPERTIES  
PLANAR STRUCTURES  
ROUGHNESS  
SURFACE GEOMETRY

FLATTENING  
1306 1308 1902  
RT DUCTILITY  
ELLIPTICITY  
FLATNESS  
LEVELING  
#METAL WORKING  
OBLATE SPHEROIDS  
ROLLING  
SMOOTHING

FLATWORKS  
0402 0404  
BT #ANIMALS  
INVERTEBRATES

WORMS

FLAW DETECTION  
USE #NONDESTRUCTIVE TESTS

FLAWS  
USE #DEFECTS

FLEET BALLISTIC MISSILES  
3101 3401  
UP FBM (MISSILES)  
NT POLARIS A1 MISSILE  
POLARIS A2 MISSILE  
POLARIS A3 MISSILE  
POSEIDON MISSILES  
SUBROC MISSILE

BT #MISSILES  
SURFACE TO SURFACE MISSILES  
RT BALLISTIC MISSILE SUBMARINES  
GUIDED MISSILE SUBMARINES  
INTERCONTINENTAL BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC MISSILES  
SEA LAUNCHING

FLEXIBILITY  
1809 3203 3408  
UP NONRIGIDITY  
BT #MECHANICAL PROPERTIES  
RT BENDING  
ELASTIC PROPERTIES  
FLEXING  
NONUNIFORMITY  
PLASTIC PROPERTIES  
RIGIDITY  
STIFFNESS  
VERSATILITY

FLEXIBLE BODIES  
0102 3103 3110 3203  
RT BODIES  
FLEXIBLE WINGS  
INFLATABLE STRUCTURES

FLEXIBLE WINGS  
0104  
UP ROGALLO WINGS  
NT PARAWINGS  
BT #AIRFOILS  
#GLIDERS  
PARAGLIDERS  
WINGS  
RT FIXED WINGS  
FLEXIBLE BODIES  
INFINITE SPAN WINGS  
INFLATABLE STRUCTURES  
RIGID WINGS  
THIN WINGS  
TWISTED WINGS  
IV-8A AIRCRAFT

FLEXING  
3203  
UP FLEXURE  
RT BENDING  
CAMBER  
CHAMBERS  
CURVATURE  
DEFLECTION  
#DEFORMATION  
DISTORTION  
FLEXIBILITY  
FOLDING  
HEAVING  
LOADING MOMENTS

FLEXORS  
0404  
BT #ANATOMY  
MUSCULOSKELETAL SYSTEM  
RT JOINTS (ANATOMY)

FLEXOWRITERS (TRADEMARK)  
USE AUTOMATIC TYPEWRITERS

FLEXURE  
USE FLEXING

FLICKER  
0408 0702 2306 2310  
RT CRITICAL FLICKER FUSION  
LIGHT TRANSMISSION

FLICKER FUSION FREQUENCY  
USE CRITICAL FLICKER FUSION

FLIGHT  
0201 3004 3007  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP FLYING  
HIGH ALTITUDE FLIGHT  
HIGH SPEED FLIGHT  
RT AERODYNAMICS

# NASA TREASURES (ALPHABETICAL LISTING)

BALLOON FLIGHT  
CLIMBING FLIGHT  
COASTING FLIGHT  
CRUISING FLIGHT  
FLIGHT ALTITUDE  
#FLIGHT CONTROL  
FLIGHT MECHANICS  
FLIGHT OPTIMIZATION  
FLIGHT PATHS  
FLIGHT SAFETY  
FLIGHT TESTS  
FLIGHT TIME  
FREE FLIGHT  
GLIDING  
HORIZONTAL FLIGHT  
HYPERSONIC FLIGHT  
LUNAR FLIGHT  
METEOROLOGICAL FLIGHT  
PARABOLIC FLIGHT  
ROCKET FLIGHT  
SOARING

#SPACE FLIGHT  
STEERING  
SUBORBITAL FLIGHT  
SUPERSONIC FLIGHT  
#TRAJECTORIES  
TRANSONIC FLIGHT  
TURNING FLIGHT  
VERTICAL FLIGHT  
VISUAL FLIGHT

FLIGHT ALTITUDE  
0201 3006 3009  
BT ALTITUDE  
RT AIR TRAFFIC CONTROL  
CEILING (AIRCRAFT CAPABILITY)  
FLIGHT  
FLIGHT PATHS  
FLIGHT RULES  
SIMULATED ALTITUDE

FLIGHT CHARACTERISTICS  
0101 0201 3009  
UP FLIGHT PERFORMANCE  
FLYING QUALITIES  
RT AERODYNAMICS  
AIRCRAFT PERFORMANCE  
AIRCRAFT SPECIFICATIONS  
AIRSPEED  
BUFFETING  
CEILING (AIRCRAFT CAPABILITY)  
CHARACTERISTICS  
CONTROLLABILITY  
#FLIGHT CONTROL  
FLUTTER  
HELICOPTER PERFORMANCE  
LOW SPEED STABILITY  
MANEUVERABILITY  
PERFORMANCE  
QUALITY

FLIGHT CLOTHING  
0203 0507 0508 3104  
BT #CLOTHING  
RT COVERALLS  
GARMENTS  
GOGGLES  
HELMETS  
PRESSURE SUITS  
PROTECTIVE CLOTHING

FLIGHT CONDITIONS  
0101 3009 2003  
BT CONDITIONS  
RT CLOUD COVER  
FLIGHT PATHS  
INSTRUMENT FLIGHT RULES  
METEOROLOGICAL SERVICES  
STORMS (METEOROLOGY)  
VISUAL FLIGHT  
WEATHER FORECASTING

#FLIGHT CONTROL  
0201 1402 1410 2102 3009  
NT AUTOMATIC FLIGHT CONTROL  
AUTOMATIC LANDING CONTROL  
FLY BY WIRE CONTROL  
POINTING CONTROL SYSTEMS  
THRUST VECTOR CONTROL

RT ACROBATICS  
AIR TRAFFIC CONTROL  
AIRCRAFT CONTROL  
#AIRCRAFT INSTRUMENTS  
#ATTITUDE CONTROL  
ATTITUDE INDICATORS  
#AUTOMATIC CONTROL  
AUTOMATIC PILOTS

# NASA THESAURUS (ALPHABETICAL LISTING)

CONTROL  
 CONTROL STABILITY  
 #CONTROL SURFACES  
 #DISPLAY DEVICES  
 FLIGHT  
 FLIGHT CHARACTERISTICS  
 #FLIGHT INSTRUMENTS  
 FLIGHT PATHS  
 #GROUND BASED CONTROL  
 GROUND SUPPORT EQUIPMENT  
 #GUIDANCE (MOTION)  
 HELICOPTER CONTROL  
 IN-FLIGHT MONITORING  
 INSTRUMENT APPROACH  
 INSTRUMENT LANDING SYSTEMS  
 MANEUVERABILITY  
 #MANEUVERS  
 MISSILE CONTROL  
 #NAVIGATION  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 RADIO NAVIGATION  
 REMOTE CONTROL  
 ROCKET ENGINE CONTROL  
 SOLAR COMPASSES  
 #SPACECRAFT CONTROL  
 TURBOJET ENGINE CONTROL  
 FLIGHT CREWS  
 0502  
 UP AIRCREWS  
 BT FLYING PERSONNEL  
 #PERSONNEL  
 RT AIRCRAFT PILOTS  
 FLIGHT NURSES  
 FLIGHT SURGEONS  
 NAVIGATORS  
 PILOTS (PERSONNEL)  
 FLIGHT FATIGUE  
 0401 0408  
 BT FATIGUE (BIOLOGY)  
 RT FLIGHT STRESS  
 FLIGHT STRESS (BIOLOGY)  
 FLIGHT FITNESS  
 0401 0408 0502  
 BT FITNESS  
 RT FLIGHT STRESS  
 FLIGHT TRAINING  
 FLYING PERSONNEL  
 PHYSICAL EXAMINATIONS  
 PHYSICAL FITNESS  
 FLIGHT HAZARDS  
 0201 0203 3009 3104  
 NT METEOROID HAZARDS  
 BT #HAZARDS  
 RT AIR PIRACY  
 AIR TRAFFIC  
 AIRCRAFT ACCIDENTS  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY  
 BIRDS  
 COLLISIONS  
 CRASH LANDING  
 #CRASHES  
 DESTRUCTION  
 FLIGHT SAFETY  
 FLIGHT STRESS  
 MIDAIR COLLISIONS  
 NOISE (SOUND)  
 OPERATIONAL HAZARDS  
 TOXIC HAZARDS  
 WEATHER  
 #FLIGHT INSTRUMENTS  
 1402 1410  
 NT APPROACH INDICATORS  
 ATTITUDE INDICATORS  
 AUTOMATIC PILOTS  
 FLIGHT TEST INSTRUMENTS  
 GYRO HORIZONS  
 HORIZON SCANNERS  
 RADIO ALTIMETERS  
 BT AIR NAVIGATION  
 AIRBORNE EQUIPMENT  
 AIRCRAFT CONTROL  
 AIRCRAFT EQUIPMENT  
 #AIRCRAFT INSTRUMENTS  
 ALTIMETERS  
 COMPASSES  
 #DISPLAY DEVICES  
 ENGINE CONTROL  
 ENGINE MONITORING INSTRUMENTS  
 #FLIGHT CONTROL  
 FLIGHT PATHS

HEAD-UP DISPLAYS  
 INSTRUMENT APPROACH  
 INSTRUMENT FLIGHT RULES  
 INSTRUMENT LANDING SYSTEMS  
 INSTRUMENTS  
 LANDING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 NAVIGATION INSTRUMENTS  
 #ONBOARD EQUIPMENT  
 POSITION INDICATORS  
 #RADAR  
 RADIO DIRECTION FINDERS  
 RATE OF CLIMB INDICATORS  
 #RECORDING INSTRUMENTS  
 SATELLITE INSTRUMENTS  
 SOLAR COMPASSES  
 #SPACECRAFT INSTRUMENTS  
 SPACECRAFT POSITION INDICATORS  
 SPEED INDICATORS  
 STAR TRACKERS  
 FLIGHT LOAD RECORDERS  
 1402 1406 1410  
 BT #MEASURING INSTRUMENTS  
 #RECORDING INSTRUMENTS  
 RT STRAIN GAGES  
 FLIGHT MECHANICS  
 0201 3009  
 RT AERODYNAMICS  
 ASCENT TRAJECTORIES  
 DESCENT TRAJECTORIES  
 FLIGHT  
 FLIGHT OPTIMIZATION  
 FLIGHT PATHS  
 MECHANICS (PHYSICS)  
 MISSILE TRAJECTORIES  
 ORBIT CALCULATION  
 ORBIT DECAY  
 ORBITAL MECHANICS  
 PLATFORMS  
 REENTRY TRAJECTORIES  
 #RENDEZVOUS  
 RENDEZVOUS TRAJECTORIES  
 #SPACE FLIGHT  
 SPACE MECHANICS  
 SPACECRAFT REENTRY  
 SPACECRAFT TRAJECTORIES  
 THRUST PROGRAMMING  
 #TRAJECTORIES  
 TRAJECTORY MEASUREMENT  
 TRAJECTORY OPTIMIZATION  
 FLIGHT NURSES  
 0401 0405  
 BT FLIGHT CREWS  
 FLIGHT SURGEONS  
 FLIGHT OPTIMIZATION  
 0201 3006 3009  
 BT #OPTIMIZATION  
 RT BURNING TIME  
 EARTH-VENUS TRAJECTORIES  
 FLIGHT  
 FLIGHT MECHANICS  
 FLIGHT PATHS  
 FLIGHT PLANS  
 FLIGHT TIME  
 GREAT CIRCLES  
 ORBITAL MECHANICS  
 #ORBITS  
 PARKING ORBITS  
 #SPACE FLIGHT  
 THRUST PROGRAMMING  
 #TRAJECTORIES  
 TRAJECTORY OPTIMIZATION  
 FLIGHT PATHS  
 0201 1904 3006  
 BT GLIDE PATHS  
 RT ACCORDION PROJECT  
 AIR NAVIGATION  
 AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 #AIRCRAFT INSTRUMENTS  
 AIRSPACE  
 APPROACH  
 APPROACH CONTROL  
 CLIMBING FLIGHT  
 COLLISION AVOIDANCE  
 COLLISIONS  
 DESCENT  
 DRIFT  
 FLIGHT  
 FLIGHT ALTITUDE  
 FLIGHT CONDITIONS  
 #FLIGHT CONTROL

## FLIGHT SIMULATION

#FLIGHT INSTRUMENTS  
 FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 FLIGHT PLANS  
 FLIGHT RULES  
 FLIGHT TIME  
 GLIDING  
 GREAT CIRCLES  
 GROUND TRACKS  
 #GUIDANCE (MOTION)  
 HORIZONTAL FLIGHT  
 MISSILE TRAJECTORIES  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 #NAVIGATION  
 #NAVIGATION AIDS  
 #ORBITS  
 PATHS  
 REENTRY  
 ROCKET FLIGHT  
 SATELLITE GROUND TRACKS  
 SOLAR COMPASSES  
 TACAN  
 #TRAJECTORIES  
 TURNING FLIGHT  
 VERTICAL FLIGHT  
 VISUAL FLIGHT  
 FLIGHT PERFORMANCE  
 USE FLIGHT CHARACTERISTICS  
 FLIGHT PLANS  
 0201 1106 3009 3409  
 RT AIR NAVIGATION  
 AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 APPROACH  
 FLIGHT OPTIMIZATION  
 FLIGHT PATHS  
 FLIGHT RULES  
 INSTRUMENT FLIGHT RULES  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 PLANS  
 ROUTES  
 THRUST PROGRAMMING  
 WEATHER  
 FLIGHT RECORDERS  
 0707 1402 1410  
 BT #AIRCRAFT INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 #RECORDING INSTRUMENTS  
 FLIGHT RULES  
 0203 0502 1101 1402  
 NT INSTRUMENT FLIGHT RULES  
 BT #RULES  
 RT AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 COLLISION AVOIDANCE  
 FLIGHT ALTITUDE  
 FLIGHT PATHS  
 FLIGHT PLANS  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 NATIONAL AVIATION SYSTEM  
 NOISE REDUCTION  
 VISUAL FLIGHT RULES  
 FLIGHT SAFETY  
 0203 0508 3104  
 BT SAFETY  
 RT AIR PIRACY  
 AIR TRAFFIC CONTROL  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY  
 COLLISION AVOIDANCE  
 #CRASHES  
 DESTRUCTION  
 FLIGHT  
 FLIGHT HAZARDS  
 FLIGHT STRESS  
 MIDAIR COLLISIONS  
 #ONBOARD EQUIPMENT  
 SAFETY DEVICES  
 SELF SEALING  
 VISUAL FLIGHT  
 FLIGHT SIMULATION  
 0502 1106 1107 1108  
 BT EXHAUST FLOW SIMULATION  
 #SIMULATION  
 RT ACOUSTIC SIMULATION  
 ALTITUDE SIMULATION  
 ANALOG SIMULATION  
 COMPUTERIZED SIMULATION  
 CONTROL SIMULATION

# FLIGHT SIMULATORS

ENVIRONMENT SIMULATION  
 FLIGHT SIMULATORS  
 LANDING SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 #SPACE FLIGHT  
 TRAINING SIMULATORS  
 WEIGHTLESSNESS SIMULATION  
 FLIGHT SIMULATORS  
 1107  
 BT COCKPIT SIMULATORS  
 BT #SIMULATORS  
 TRAINING SIMULATORS  
 RT ATMOSPHERIC ENTRY SIMULATION  
 CENTRIFUGES  
 CONTROL SIMULATION  
 FLIGHT SIMULATION  
 LUNAR ORBIT AND LANDING SIMULATORS  
 MISSILE SIMULATORS  
 PILOT TRAINING  
 SPACE ENVIRONMENT SIMULATION  
 SPACE SIMULATORS  
 #TEST FACILITIES  
 TRAINING DEVICES  
 WIND TUNNELS  
 FLIGHT STABILITY TESTS  
 0101 0104 0201  
 BT FLIGHT TESTS  
 STABILITY TESTS  
 RT AERODYNAMIC STABILITY  
 FLIGHT STRESS  
 0401 0408 3104 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FLIGHT FATIGUE  
 FLIGHT FITNESS  
 FLIGHT HAZARDS  
 FLIGHT SAFETY  
 FLIGHT STRESS (BIOLOGY)  
 HUMAN FACTORS ENGINEERING  
 SPACE FLIGHT STRESS  
 STRESS ANALYSIS  
 #STRESSES  
 FLIGHT STRESS (BIOLOGY)  
 0401 0408  
 (EXCLUDES MECHANICAL STRESS AND AND  
 STRAIN)  
 NT SPACE FLIGHT STRESS  
 RT ACCELERATION (PHYSICS)  
 BIOLOGICAL EFFECTS  
 FLIGHT FATIGUE  
 FLIGHT STRESS  
 PHYSIOLOGICAL FACTORS  
 PSYCHOLOGICAL FACTORS  
 #STRESS (PHYSIOLOGY)  
 STRESS (PSYCHOLOGY)  
 WEIGHTLESSNESS  
 FLIGHT SURGEONS  
 0401  
 BT MEDICAL PERSONNEL  
 #PERSONNEL  
 SURGEONS  
 RT FLIGHT CREWS  
 FLIGHT NURSES  
 FLIGHT TEST INSTRUMENTS  
 1106 1108 1406  
 BT #FLIGHT INSTRUMENTS  
 RT #AIRCRAFT INSTRUMENTS  
 FLIGHT TEST VEHICLES  
 FLIGHT TESTS  
 ROCKET-BORNE INSTRUMENTS  
 #SPACECRAFT INSTRUMENTS  
 FLIGHT TEST VEHICLES  
 1106 1108  
 BT TEST VEHICLES  
 RT AIRCRAFT  
 FLIGHT TEST INSTRUMENTS  
 FLIGHT TESTS  
 #LAUNCH VEHICLES  
 #MISSILES  
 RESEARCH AIRCRAFT  
 SPACECRAFT  
 FLIGHT TESTS  
 0201 1108 1505 3009  
 NT FLIGHT STABILITY TESTS  
 RT AIRCRAFT DESIGN  
 ALTITUDE TESTS  
 CERTIFICATION  
 DOWNRANGE  
 DYNAMIC TESTS  
 ENGINE TESTS  
 FLIGHT

FLIGHT TEST INSTRUMENTS  
 FLIGHT TEST VEHICLES  
 FREE FLIGHT TEST APPARATUS  
 FULL SCALE TESTS  
 #GROUND TESTS  
 HIGH ALTITUDE TESTS  
 IN-FLIGHT MONITORING  
 MISSILE DESIGN  
 MISSILE TESTS  
 SPACE ELECTRIC ROCKET TESTS  
 STABILITY TESTS  
 TESTS  
 #VIBRATION TESTS  
 WING FLOW METHOD TESTS  
 FLIGHT TIME  
 0201 1904 3006 3110  
 BT #TIME  
 RT AIR TRAFFIC CONTROL  
 BURNING TIME  
 FLIGHT  
 FLIGHT OPTIMIZATION  
 FLIGHT PATHS  
 TESTING TIME  
 #TRAJECTORIES  
 TRANSIT TIME  
 WINDOWS (INTERVALS)  
 FLIGHT TRAINING  
 0408 0502 3401  
 BT SPACE FLIGHT TRAINING  
 RT #EDUCATION  
 ASTRONAUT TRAINING  
 EJECTION TRAINING  
 FLIGHT FITNESS  
 FLYING PERSONNEL  
 PILOT TRAINING  
 TRAINING SIMULATORS  
 FLIGHT VEHICLES  
 0201 3009 3110  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIRCRAFT CONFIGURATIONS  
 GROUND EFFECT MACHINES  
 #HYPERSONIC VEHICLES  
 LUNAR FLYING VEHICLES  
 #MISSILES  
 #REENTRY VEHICLES  
 RESEARCH VEHICLES  
 #ROCKET VEHICLES  
 FLINT  
 1806  
 BT #CHALCOGENIDES  
 DIOXIDES  
 OXIDES  
 #SILICON COMPOUNDS  
 RT QUARTZ  
 FLIP-FLOPS  
 0801 0902 1001 1201 1504  
 UP BISTABLE AMPLIFIERS  
 BT #CIRCUITS  
 #COMPUTER STORAGE DEVICES  
 MULTIVIBRATORS  
 RT BISTABLE CIRCUITS  
 DATA STORAGE  
 FLUID SWITCHING ELEMENTS  
 #OSCILLATORS  
 FLOATING  
 3407  
 RT BALLAST (MASS)  
 BUOYANCY  
 FLOATS  
 FLOATING POINT ARITHMETIC  
 0802 0902  
 BT ARITHMETIC  
 RT #COMPUTER PROGRAMS  
 COMPUTERS  
 #DATA PROCESSING  
 FLOATS  
 0203 3202  
 UP FLOTATION SYSTEMS  
 RT BALLAST (MASS)  
 BUOYS  
 EMERGENCY LIFE SUSTAINING SYSTEMS  
 FLOATING  
 INFLATABLE STRUCTURES  
 LANDING GEAR  
 LIFE RAFTS  
 RAFTS  
 #SEPARATORS  
 FLOCCULATING  
 0602 0603  
 RT AGGLOMERATION

# BASA THESAURUS (ALPHABETICAL LISTING)

COAGULATION  
 COALESCING  
 COLLOIDING  
 CONCENTRATING  
 FLOTATION  
 PRECIPITATION (CHEMISTRY)  
 SETTLING  
 WATER TREATMENT  
 FLOOD PREDICTIONS  
 1301  
 BT FLOODS  
 #PREDICTIONS  
 RT HYDROGEOLOGY  
 HYDROLOGY  
 PRECIPITATION (METEOROLOGY)  
 RAIN  
 RAINSTORMS  
 SHOWERS  
 STORMS (METEOROLOGY)  
 WEATHER FORECASTING  
 FLOODS  
 1204 1308  
 RT FLOOD PREDICTIONS  
 RT HYDROLOGY  
 PRECIPITATION (METEOROLOGY)  
 #STORMS  
 STORMS (METEOROLOGY)  
 TIDES  
 WATER FLOW  
 WATER MANAGEMENT  
 FLOORS  
 3202 3203  
 UP DECKS (FLOORS)  
 RT BASEMENTS  
 BUILDINGS  
 CEILINGS (ARCHITECTURE)  
 DOORS  
 PLATFORMS  
 SUBSTRUCTURES  
 WALLS  
 FLOQUET THEOREM  
 1902  
 BT #THEOREMS  
 RT DIFFERENTIAL EQUATIONS  
 LINEAR EQUATIONS  
 PERIODIC FUNCTIONS  
 FLORA  
 USE #PLANTS (BOTANY)  
 FLORIDA  
 1305  
 BT UNITED STATES OF AMERICA  
 FLOTATION  
 0505 0602  
 RT ACTIVATION  
 BENEFICIATION  
 CLASSIFIERS  
 COAGULATION  
 CONCENTRATING  
 FLOCCULATING  
 FLUID ROTOR GYROSCOPES  
 FOAMING  
 LEVITATION  
 SEPARATION  
 SETTLING  
 SIZE SEPARATION  
 SUSPENSION SYSTEMS (VEHICLES)  
 WATER TREATMENT  
 FLOTATION SYSTEMS  
 USE FLOATS  
 FLOUR  
 0409 0505  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FINES  
 FLOUR (FOOD)  
 FLOUR (FOOD)  
 0409  
 RT FLOUR  
 FOOD  
 POWDER (PARTICLES)  
 FLOW  
 0101 0802 1110 1202 1203 1204 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AERODYNAMICS  
 ANNULAR FLOW  
 BRILLOUIN FLOW  
 CREEP PROPERTIES  
 CROSS FLOW  
 EXHAUST NOZZLES



# NASA THESAURUS (ALPHABETICAL LISTING)

FLOW EQUATIONS  
 FLOW THEORY  
 #FLUID FLOW  
 HEAT TRANSMISSION  
 INFORMATION FLOW  
 LOW DENSITY FLOW  
 MASS FLOW  
 ORIFICE FLOW  
 PLASTIC FLOW  
 SHEAR FLOW  
 SOLIDS FLOW  
 FLOW CHAMBERS  
 1202  
 RT CHAMBERS  
 FLOW CHARACTERISTICS  
 0101 1202 1203 3303  
 NT BOUNDARY LAYER STABILITY  
 FLAME STABILITY  
 FLOW DISTRIBUTION  
 FLOW STABILITY  
 FLOW VELOCITY  
 MAGNETOHYDRODYNAMIC STABILITY  
 BT #DYNAMIC CHARACTERISTICS  
 RT BAROTROPIC FLOW  
 CRITICAL FLOW  
 CROSS FLOW  
 EDDY VISCOSITY  
 FLOW COEFFICIENTS  
 FLOW EQUATIONS  
 FLOW REGULATORS  
 FLOW RESISTANCE  
 INVISCID FLOW  
 LAMINAR FLOW  
 NONUNIFORM FLOW  
 REATTACHED FLOW  
 SEPARATED FLOW  
 STEADY FLOW  
 STROUHAL NUMBER  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 #TURBULENCE  
 TURBULENT FLOW  
 VISCOSITY  
 VISCOUS FLOW  
 FLOW CHARTS  
 0802  
 BT #CHARTS  
 RT COMPUTER PROGRAMMING  
 FLOW GRAPHS  
 MATHEMATICAL MODELS  
 FLOW COEFFICIENTS  
 1202 1203  
 NT DISCHARGE COEFFICIENT  
 BT #COEFFICIENTS  
 RT AERODYNAMIC COEFFICIENTS  
 ATTENUATION COEFFICIENTS  
 FLOW CHARACTERISTICS  
 FLOW EQUATIONS  
 FLOW THEORY  
 MASS FLOW FACTORS  
 NOZZLE THRUST COEFFICIENTS  
 REFLECTANCE  
 #TRANSPORT PROPERTIES  
 FLOW DEFLECTION  
 1202 1203  
 RT DEPLECTORS  
 FLOW DISTORTION  
 FLOW DIRECTION INDICATORS  
 1402 1406 1409  
 NT WIND VANES  
 BT #DISPLAY DEVICES  
 INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 FLOW DISTORTION  
 1202 1203  
 BT DISTORTION  
 RT AERODYNAMIC COEFFICIENTS  
 FLOW DEFLECTION  
 FLOW DISTRIBUTION  
 MULTIPHASE FLOW  
 OSCILLATING FLOW  
 SMALL PERTURBATION FLOW  
 VORTICES  
 FLOW DISTRIBUTION  
 0101 1202 1203 1504  
 UP FLOW FIELDS  
 FLOW PATTERNS  
 VELOCITY POTENTIALS  
 BT #DISTRIBUTION (PROPERTY)  
 #DYNAMIC CHARACTERISTICS  
 FLOW CHARACTERISTICS  
 RT BOUNDARY LAYER FLOW

BOUNDARY LAYER SEPARATION  
 CAVITATION FLOW  
 CHAPMAN-ENSKOG THEORY  
 EXHAUST FLOW SIMULATION  
 FIELD THEORY (PHYSICS)  
 FLOW DISTORTION  
 FLOW EQUATIONS  
 FLOW GEOMETRY  
 FLOW GRAPHS  
 FLOW VELOCITY  
 FLOW VISUALIZATION  
 ISOTHERMAL FLOW  
 METHOD OF CHARACTERISTICS  
 NUMERICAL FLOW VISUALIZATION  
 REATTACHED FLOW  
 RHEOELECTRICAL SIMULATION  
 SEPARATED FLOW  
 STROUHAL NUMBER  
 VELOCITY DISTRIBUTION  
 VORTEX SHEETS  
 FLOW EQUATIONS  
 1202 1203  
 NT HELMHOLTZ VORTICITY EQUATION  
 VON KARMAN EQUATION  
 VORTICITY EQUATIONS  
 RT CHARLYGIN EQUATION  
 EQUATIONS  
 FLOW  
 FLOW CHARACTERISTICS  
 FLOW COEFFICIENTS  
 FLOW DISTRIBUTION  
 FLOW THEORY  
 PARTICLE IN CELL TECHNIQUE  
 PERCUS METHOD  
 FLOW FIELDS  
 USE FLOW DISTRIBUTION  
 FLOW GEOMETRY  
 1201 1202 1203  
 BT #GEOMETRY  
 RT ANNULAR FLOW  
 AXIAL FLOW  
 AXISYMMETRIC FLOW  
 CHANNEL FLOW  
 COAXIAL FLOW  
 CORE FLOW  
 CROSS FLOW  
 DUCTED FLOW  
 FLOW DISTRIBUTION  
 FLOW THEORY  
 HELICAL FLOW  
 INLET FLOW  
 LAMINAR FLOW  
 MERIDIONAL FLOW  
 NOZZLE FLOW  
 ONE DIMENSIONAL FLOW  
 RADIAL FLOW  
 STEADY FLOW  
 STRATIFIED FLOW  
 THREE DIMENSIONAL FLOW  
 TWO DIMENSIONAL FLOW  
 WEDGE FLOW  
 FLOW GRAPHS  
 0802 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT EQUIPOTENTIALS  
 FLOW CHARTS  
 FLOW DISTRIBUTION  
 FLOW NETS  
 FLOW MEASUREMENT  
 0101 1202 1203 1406  
 BT #MECHANICAL MEASUREMENT  
 RT ANEMOMETERS  
 ANEMOMETER  
 DRAG MEASUREMENT  
 FLOW VELOCITY  
 FLOWMETERS  
 #FLUID FLOW  
 GAS METERS  
 HOT-FILM ANEMOMETERS  
 HOT-WIRE ANEMOMETERS  
 MEASUREMENT  
 MULTIPHASE FLOW  
 NOZZLES  
 ORIFICES  
 PITOT TUBES  
 PNEUMATIC PROBES  
 PRESSURE MEASUREMENTS  
 RHEOLOGY  
 SOLIDS FLOW  
 VELOCITY MEASUREMENT

## FLOW VELOCITY

VENTURI TUBES  
 WATER FLOW  
 WIND VELOCITY  
 FLOW NETS  
 0802 1902  
 RT EQUIPOTENTIALS  
 FLOW GRAPHS  
 SEEPAGE  
 FLOW PATTERNS  
 USE FLOW DISTRIBUTION  
 FLOW RATE  
 USE FLOW VELOCITY  
 FLOW REGULATORS  
 1003 1202 1501 1504  
 NT FUEL FLOW REGULATORS  
 BT #REGULATORS  
 RT FLOW CHARACTERISTICS  
 FLOWMETERS  
 OXYGEN REGULATORS  
 PRESSURE REGULATORS  
 FLOW RESISTANCE  
 0101 1202 1203  
 NT AERODYNAMIC DRAG  
 FRICTION DRAG  
 SUPERSONIC DRAG  
 VISCOUS DRAG  
 BT #FRICTION  
 RT EDDY VISCOSITY  
 FLOW CHARACTERISTICS  
 HIGH RESISTANCE  
 LOW RESISTANCE  
 RESISTANCE  
 SKIN FRICTION  
 VISCOSITY  
 FLOW SEPARATION  
 USE BOUNDARY LAYER SEPARATION  
 SEPARATED FLOW  
 FLOW STABILITY  
 1202 1203  
 UP HYDRODYNAMIC STABILITY  
 NT BOUNDARY LAYER STABILITY  
 FLAME STABILITY  
 MAGNETOHYDRODYNAMIC STABILITY  
 BT #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 FLOW CHARACTERISTICS  
 MOTION STABILITY  
 #STABILITY  
 RT AERODYNAMIC STABILITY  
 DIRECTIONAL STABILITY  
 HYDRODYNAMIC EQUATIONS  
 HYDROFOIL OSCILLATIONS  
 LAMINAR FLOW  
 LATERAL STABILITY  
 LONGITUDINAL STABILITY  
 LOW SPEED STABILITY  
 ROTARY STABILITY  
 STEADY FLOW  
 STROUHAL NUMBER  
 SUPERSONIC DIFFUSERS  
 SYSTEMS STABILITY  
 TURBULENT FLOW  
 UNSTEADY FLOW  
 VISCOUS FLUIDS  
 VON KARMAN EQUATION  
 VORTEX BREAKDOWN  
 VORTICES  
 VORTICITY  
 FLOW THEORY  
 1202 1203 1204  
 NT MIXING LENGTH FLOW THEORY  
 RT AERODYNAMICS  
 CONTINUUM MECHANICS  
 #DISLOCATIONS (MATERIALS)  
 FLOW  
 FLOW COEFFICIENTS  
 FLOW EQUATIONS  
 FLOW GEOMETRY  
 FLOW VELOCITY  
 #FLUID FLOW  
 #FLUID MECHANICS  
 HYDRODYNAMIC EQUATIONS  
 HYDRODYNAMICS  
 LIGHTHILL METHOD  
 MASS FLOW  
 NAVIER-STOKES EQUATION  
 PNEUMATICS  
 RHEOLOGY  
 SOLIDS FLOW  
 THEORIES  
 FLOW VELOCITY  
 1202 1203 2502

# FLOW VISUALIZATION

UF FLOW RATE  
BT #DYNAMIC CHARACTERISTICS  
FLOW CHARACTERISTICS  
#RATES (PER TIME)  
VELOCITY  
BT DISCHARGE COEFFICIENT  
EXHAUST VELOCITY  
FLOW DISTRIBUTION  
FLOW MEASUREMENT  
FLOW THEORY  
HYPERSONIC FLOW  
HYPERVELOCITY FLOW  
LOW SPEED  
MASS FLOW RATE  
SUBSONIC FLOW  
SUPERSONIC FLOW  
TRANSONIC FLOW  
UNSTEADY FLOW  
VELOCITY DISTRIBUTION  
VELOCITY MEASUREMENT

## FLOW VISUALIZATION 1407 2310

UF VISIOPLASTICITY  
VISUALIZATION OF FLOW  
BT NUMERICAL FLOW VISUALIZATION  
BT FLOW DISTRIBUTION  
HYDRAULIC ANALOGIES  
SCHLIEREN PHOTOGRAPHY  
SHADOWGRAPH PHOTOGRAPHY  
WIND TUNNEL MODELS

## FLOWMETERS

0501 1202 1203 1406  
BT GAS METERS  
HOT-WIRE FLOWMETERS  
RHEOMETERS  
BT #MEASURING INSTRUMENTS  
BT ELECTRICAL MEASUREMENT  
FLOW MEASUREMENT  
FLOW REGULATORS  
#FLUID FLOW  
FUEL GAGES  
HOT-WIRE ANEMOMETERS  
#MECHANICAL MEASUREMENT  
ORIFICES  
PITOT TUBES  
PRESSURE GAGES  
PRESSURE MEASUREMENTS  
SONIC ANEMOMETERS  
SPEED INDICATORS  
TURBINE INSTRUMENTS  
VELOCITY MEASUREMENT  
VENTURI TUBES

## FLOX 0603 1804

UF FLUORINE-LIQUID OXYGEN  
BT CRYOGENIC FLUIDS  
#LIQUIDS  
#OXIDIZERS  
ROCKET OXIDIZERS  
BT FLUORINE  
LIQUID OXYGEN

## FLUCTUATION

USE #VARIATIONS  
FLUCTUATION THEORY  
1905 2308 2311  
BT HOMOGENEOUS TURBULENCE  
STATISTICAL MECHANICS  
THEORIES

## FLUENCE

2401 2403 2405  
BT HEALTH PHYSICS  
#IONIZING RADIATION  
RADIATION COUNTERS

## FLUERICS

1201 1202  
BT FLUIDICS  
BT FLUID AMPLIFIERS  
FLUID SWITCHING ELEMENTS  
HYDRAULIC ANALOGIES

## FLUES

1504  
BT CHIMNEYS  
DRAFT (GAS FLOW)  
DUCTS  
EXHAUST SYSTEMS  
VENTS

## FLUID AMPLIFICATION

USE FLUID AMPLIFIERS  
FLUID AMPLIFIERS

## 1201

UF FLUID AMPLIFICATION  
FLUID JET AMPLIFIERS

NT JET AMPLIFIERS  
BT #AMPLIFIERS  
BT AMPLIFICATION  
AUTOMATIC CONTROL VALVES  
BOUNDARY LAYER CONTROL  
COANDA EFFECT  
CONVERGENT NOZZLES  
FLUERICS  
FLUID JETS  
FLUID POWER  
FLUID SWITCHING ELEMENTS  
FLUID TRANSMISSION LINES  
FLUIDICS  
HYDRAULIC EQUIPMENT  
PNEUMATIC EQUIPMENT  
PRESSURE RECOVERY  
TURBULENT FLOW  
TURBULENT JETS  
WALL JETS

## FLUID BOUNDARIES

1201 1202 1203  
BT GAS-SOLID INTERFACES  
JET BOUNDARIES  
LIQUID-LIQUID INTERFACES  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES

BT #BOUNDARIES  
#INTERFACES  
BT BOUNDARY LAYERS  
FREE BOUNDARIES  
HEAT TRANSFER  
INTERFACE STABILITY  
LIQUID SURFACES  
PRESSURE GRADIENTS

## FLUID DYNAMICS

1202 1203 1204  
UF CASCADES (FLUID DYNAMICS)  
LIQUID DYNAMICS  
BT AERODYNAMICS  
AEROTHERMODYNAMICS  
ELASTOHYDRODYNAMICS  
ELECTROHYDRODYNAMICS  
GAS DYNAMICS  
HYDRODYNAMICS  
HYPERSONICS  
MAGNETOHYDRODYNAMICS  
RAREFIED GAS DYNAMICS  
ROTONS  
ROTOR AERODYNAMICS  
SUPERSONICS  
BT #FLUID MECHANICS  
BT CONTINUITY EQUATION  
CONVECTION  
CROSS FLOW  
DYNAMICS  
EYRING THEORY  
#FLUID FLOW  
HYDRAULICS  
HYDROMECHANICS  
KINETICS  
LOW DENSITY FLOW  
MAGNUS EFFECT  
MECHANICS (PHYSICS)  
PISTON THEORY  
QUASI-STEADY STATES  
SLAMMING  
STAGNATION POINT  
STEADY STATE  
STREAMLINING  
#TURBULENCE  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
UNSTEADY STATE

## FLUID FILMS

2308 2311  
BT FILMS  
GAS BEARINGS  
LIQUID-SOLID INTERFACES

## FLUID FILTERS

0602 1502 1504  
UF MASS FILTERS  
PARTICULATE FILTERS  
BT AIR FILTERS  
BT #SEPARATORS  
BT CENTRIFUGES  
CONCENTRATORS  
FILTERS  
FILTRATION  
FLUIDIZED BED PROCESSORS  
SIEVES  
SIZING SCREENS

# NASA THESAURUS (ALPHABETICAL LISTING)

## #FLUID FLOW

1201 1202 1203 1204  
UF INDUCED FLUID FLOW  
ROTATIONAL FLOW  
BT ADIABATIC FLOW  
AIR CURRENTS  
AIR FLOW  
AIR JETS  
ANNULAR FLOW  
AXIAL FLOW  
AXISYMMETRIC FLOW  
BAROTROPIC FLOW  
BASE FLOW  
BELTRAMI FLOW  
BLASIUS FLOW  
BLOOD FLOW  
BOUNDARY LAYER FLOW  
BOUNDARY LAYER SEPARATION  
CAPILLARY FLOW  
CASCADE FLOW  
CAVITATION FLOW  
CHANNEL FLOW  
COAXIAL FLOW  
COMBUSTIBLE FLOW  
COMPRESSIBLE FLOW  
CONTINUUM FLOW  
CONVECTIVE FLOW  
CORE FLOW  
COUETTE FLOW  
COUNTERFLOW  
CRITICAL FLOW  
DUCTED FLOW  
EQUILIBRIUM FLOW  
EQUIPOTENTIALS  
FREE FLOW  
FREE MOLECULAR FLOW  
FROZEN EQUILIBRIUM FLOW  
FUEL FLOW  
GAS FLOW  
HARTMANN FLOW  
HEAD FLOW  
HELICAL FLOW  
HYPERVELOCITY FLOW  
INCOMPRESSIBLE FLOW  
INLET FLOW  
INVISCID FLOW  
ISOTHERMAL FLOW  
JET FLOW  
JET MIXING FLOW  
JET STREAMS (METEOROLOGY)  
KARMAN-BODENADT FLOW  
KNUDSEN FLOW  
LAMINAR FLOW  
LIQUID FLOW  
MAGNETOHYDRODYNAMIC FLOW  
MASS FLOW  
MERIDIONAL FLOW  
MOLECULAR FLOW  
MULTIPHASE FLOW  
NONEQUILIBRIUM FLOW  
NONNEWTONIAN FLOW  
NONUNIFORM FLOW  
NOZZLE FLOW  
ONE DIMENSIONAL FLOW  
OPEN CHANNEL FLOW  
ORIFICE FLOW  
OSCILLATING FLOW  
PERIPHERAL JET FLOW  
PIPE FLOW  
PLASTIC FLOW  
POTENTIAL FLOW  
PROPELLANT TRANSFER  
RADIAL FLOW  
REATTACHED FLOW  
RECIRCULATIVE FLUID FLOW  
REVERSED FLOW  
SECONDARY FLOW  
SEPARATED FLOW  
SHEAR FLOW  
SHIFTING EQUILIBRIUM FLOW  
SINGLE-PHASE FLOW  
SLIP FLOW  
STAGNATION FLOW  
STEADY FLOW  
STEAM FLOW  
STOKES FLOW  
STRATIFIED FLOW  
SUBCRITICAL FLOW  
SUPERCAVITATING FLOW  
SUPERCRITICAL FLOW  
SUPERSONIC JET FLOW  
THREE DIMENSIONAL FLOW

# NASA THESAURUS (ALPHABETICAL LISTING)

TRANSITION FLOW  
 TRESCA FLOW  
 TURBULENT FLOW  
 TWO DIMENSIONAL FLOW  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 VERTICAL AIR CURRENTS  
 VISCOUS FLOW  
 WALL FLOW  
 WATER FLOW  
 WEDGE FLOW  
 RT ACOUSTIC STREAMING  
 BERNOULLI THEOREM  
 BOUNDARY LAYERS  
 CANALS  
 CARTAN SPACE  
 CHEMICAL ENGINEERING  
 CONDUCTIVITY  
 CONICAL FLOW  
 CONVECTION CURRENTS  
 CROSS FLOW  
 CURRENTS  
 DIMENSIONAL ANALYSIS  
 DIMENSIONLESS NUMBERS  
 DRAG REDUCTION  
 EJECTION  
 FLOW  
 FLOW MEASUREMENT  
 FLOW THEORY  
 FLOWMETERS  
 FLUID DYNAMICS  
 FLUID INJECTION  
 \*FLUID MECHANICS  
 FLUID POWER  
 FLUIDICS  
 FLUIDS  
 \*FRICTION  
 FROUDE NUMBER  
 HEAD (FLUID MECHANICS)  
 HEAT TRANSMISSION  
 HYDRAULICS  
 HYDRODYNAMICS  
 HYDROMECHANICS  
 \*INJECTION  
 LEAKAGE  
 LEWIS NUMBERS  
 MAGNUS EFFECT  
 MANNING THEORY  
 MATERIALS HANDLING  
 MECHANICAL ENGINEERING  
 OCEAN CURRENTS  
 OCEAN SURFACE  
 PIPES (TUBES)  
 PRESSURE GRADIENTS  
 PRESSURE HEADS  
 RAYLEIGH WAVES  
 REYNOLDS NUMBER  
 SKIN FRICTION  
 SMALL PERTURBATION FLOW  
 SOLIDS FLOW  
 STREAMS  
 SUPERSONIC BOUNDARY LAYERS  
 SURGES  
 VORTICES  
 WING FLOW METHOD TESTS  
 FLUID INJECTION  
 1201 1202 1203  
 NT GAS INJECTION  
 LIQUID INJECTION  
 WATER INJECTION  
 BT \*INJECTION  
 RT CHANNEL FLOW  
 \*FLUID FLOW  
 FLUID JETS  
 FUEL INJECTION  
 INLET FLOW  
 LAMINAR MIXING  
 NOZZLE FLOW  
 SECONDARY INJECTION  
 FLUID JET AMPLIFIERS  
 USE FLUID AMPLIFIERS  
 JET AMPLIFIERS  
 FLUID JETS  
 1202 1203  
 NT AIR JETS  
 PREP JETS  
 GAS JETS  
 HYDRAULIC JETS  
 VAPOR JETS  
 RT FLUID AMPLIFIERS

FLUID INJECTION  
 FLUID POWER  
 JET AMPLIFIERS  
 JET FLOW  
 JET MIXING FLOW  
 JET STREAMS (METEOROLOGY)  
 JETS  
 PLASMA JETS  
 FLUID LOGIC  
 0801 0802 1202  
 RT COMPUTER DESIGN  
 FLUIDICS  
 LOGIC  
 LOGIC CIRCUITS  
 \*FLUID MECHANICS  
 0101 1202 1203 3304  
 RT AERODYNAMICS  
 AEROTHERMODYNAMICS  
 ELASTOHYDRODYNAMICS  
 ELECTROHYDRODYNAMICS  
 FLUID DYNAMICS  
 GAS DYNAMICS  
 HYDRODYNAMICS  
 HYDROMECHANICS  
 HYDROSTATICS  
 HYPERSONICS  
 MAGNETOHYDRODYNAMICS  
 MAGNETOHYDROSTATICS  
 PNEUMATICS  
 RAREFIED GAS DYNAMICS  
 ROTONS  
 ROTOR AERODYNAMICS  
 SUPERSONICS  
 BLEEDING  
 CONTINUUM MECHANICS  
 DIFFUSIVITY  
 DYNAMICS  
 FLAT PLATES  
 FLOW THEORY  
 \*FLUID FLOW  
 FLUID POWER  
 FLUIDICS  
 HYDRAULICS  
 HYDRODYNAMIC EQUATIONS  
 INCOMPRESSIBILITY  
 KINETICS  
 MAXWELL FLUIDS  
 MECHANICS (PHYSICS)  
 \*STATICS  
 THERMODYNAMICS  
 FLUID POWER  
 0303 1201 1202 1203 1204 2804  
 RT COMPRESSIBLE FLUIDS  
 FLUID AMPLIFIERS  
 \*FLUID FLOW  
 FLUID JETS  
 \*FLUID MECHANICS  
 FLUID TRANSMISSION LINES  
 FLUIDICS  
 HYDRAULIC CONTROL  
 HYDRAULIC EQUIPMENT  
 HYDRAULICS  
 HYDRODYNAMICS  
 INCOMPRESSIBLE FLUIDS  
 PNEUMATIC CONTROL  
 PNEUMATIC EQUIPMENT  
 PNEUMATICS  
 POWER  
 PRESSURE DROP  
 WORKING FLUIDS  
 FLUID ROTOR GYROSCOPES  
 1202 1403  
 BT \*GYROSCOPES  
 ROTARY GYROSCOPES  
 RT PLOTATION  
 GIMBALS  
 FLUID SWITCHING ELEMENTS  
 1201 1202  
 BT \*CIRCUITS  
 \*SWITCHES  
 SWITCHING CIRCUITS  
 ACOUSTIC STREAMING  
 AUTOMATIC CONTROL VALVES  
 FLIP-FLOPS  
 FLUERIC  
 FLUID AMPLIFIERS  
 FLUIDICS  
 HYDRAULIC EQUIPMENT  
 PNEUMATIC EQUIPMENT  
 FLUID TRANSMISSION LINES  
 1201  
 BT \*TRANSMISSION LINES

## FLUORIDES

RT FLUID AMPLIFIERS  
 FLUID POWER  
 HYDRAULIC FLUIDS  
 TRANSMISSION FLUIDS  
 WORKING FLUIDS  
 FLUID TRANSPIRATION  
 USE TRANSPIRATION  
 FLUIDICS  
 1201 1202  
 NT FLUERIC  
 RT AMPLIFICATION  
 CONTROL  
 FLUID AMPLIFIERS  
 \*FLUID FLOW  
 FLUID LOGIC  
 \*FLUID MECHANICS  
 FLUID POWER  
 FLUID SWITCHING ELEMENTS  
 HYDRAULIC ANALOGIES  
 HYDRAULIC CONTROL  
 LOGIC  
 PNEUMATIC CIRCUITS  
 PNEUMATIC CONTROL  
 PNEUMATIC EQUIPMENT  
 PNEUMATICS  
 FLUIDIZED BED PROCESSORS  
 1201 2202 2204  
 RT BEDS (PROCESS ENGINEERING)  
 CHEMICAL REACTORS  
 FLUID FILTERS  
 FURNACES  
 \*SEPARATORS  
 FLUIDS  
 1202 1703 1805  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ANISOTROPIC FLUIDS  
 BINARY FLUIDS  
 \*BODY FLUIDS  
 CEREBROSPINAL FLUID  
 COMPRESSIBLE FLUIDS  
 CRYOGENIC FLUIDS  
 \*FLUID FLOW  
 \*GASES  
 GYROSCOPE FLUIDS  
 \*HIGH TEMPERATURE FLUIDS  
 HYDRAULIC FLUIDS  
 IDEAL FLUIDS  
 INCOMPRESSIBLE FLUIDS  
 \*LIQUIDS  
 MAXWELL FLUIDS  
 NEWTONIAN FLUIDS  
 NONEQUILIBRIUM FLOW  
 NONNEWTONIAN FLUIDS  
 RHEOLOGY  
 ROTATING FLUIDS  
 SERUMS  
 SOLIDS  
 SUPERFLUIDITY  
 TRANSMISSION FLUIDS  
 VISCOUS FLUIDS  
 WEIGHTLESS FLUIDS  
 WORKING FLUIDS  
 FLUORESCENCE  
 0605 2306 2402 3408  
 UF FLUORESCENT EMISSION  
 NT PHOSPHORESCENCE  
 X RAY FLUORESCENCE  
 BT \*DECAY  
 EMISSION  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT ELECTROMAGNETIC ABSORPTION  
 EXTINCTION  
 MOSSBAUER EFFECT  
 PHOSPHORS  
 PHOTOLUMINESCENCE  
 PLASMA RADIATION  
 FLUORESCENT EMISSION  
 USE FLUORESCENCE  
 FLUORIDES  
 0603 1804 1808  
 NT ALUMINUM FLUORIDES  
 ANTIMONY FLUORIDES  
 BARIUM FLUORIDES  
 BERYLLIUM FLUORIDES  
 BORON FLUORIDES  
 CADMIUM FLUORIDES  
 CALCIUM FLUORIDES  
 CESIUM FLUORIDES  
 CHLORINE FLUORIDES

# FLUORINATION

CHROMIUM FLUORIDES  
COBALT FLUORIDES  
COMPOUND A  
COPPER FLUORIDES  
CRYOLITE  
DIFLUORIDES  
FLUORSFAR  
HYDROFLUORIC ACID  
LANTHANUM FLUORIDES  
LITHIUM FLUORIDES  
MAGNESIUM FLUORIDES  
NICKEL FLUORIDES  
NITROGEN FLUORIDES  
NITRIL FLUORIDES  
OXYFLUORIDES  
OXYGEN FLUORIDES  
OZONE FLUORIDE  
PERCHLORYL FLUORIDES  
PLUTONIUM FLUORIDES  
PROTACTINIUM FLUORIDES  
SODIUM FLUORIDES  
STRONTIUM FLUORIDES  
SULFUR FLUORIDES  
TECHNETIUM FLUORIDES  
THORIUM FLUORIDES  
TUNGSTEN FLUORIDES  
URANIUM FLUORIDES  
ZINC FLUORIDES  
BT #FLUORINE COMPOUNDS  
HALIDES  
FLUORINATION  
0505 0602  
BT #CHEMICAL REACTIONS  
HALOGENATION  
RT DEFLUORINATION  
FLUORINE  
1807  
BT #CHEMICAL ELEMENTS  
RT FLOX  
#OXIDIZERS  
#FLUORINE COMPOUNDS  
0603 1804 1808  
NT ALUMINUM FLUORIDES  
ANTIMONY FLUORIDES  
BARIUM FLUORIDES  
BERYLLIUM FLUORIDES  
BORON FLUORIDES  
CADMIUM FLUORIDES  
CALCIUM FLUORIDES  
CARBON TETRAFLUORIDE  
CESIUM FLUORIDES  
CHLORINE FLUORIDES  
CHROMIUM FLUORIDES  
COBALT FLUORIDES  
COMPOUND A  
COPPER FLUORIDES  
CRYOLITE  
DIFLUORIDES  
DIFLUORO COMPOUNDS  
FLUORIDES  
FLUORINE ORGANIC COMPOUNDS  
FLUORITE  
FLUORO COMPOUNDS  
FLUOROAMINES  
FLUOROCARBONS  
FLUOROHYDROCARBONS  
FLUOROSILICATES  
FLUORSFAR  
HYDROFLUORIC ACID  
LANTHANUM FLUORIDES  
LITHIUM FLUORIDES  
MAGNESIUM FLUORIDES  
NICKEL FLUORIDES  
NITROFLUORAMINES  
NITROGEN FLUORIDES  
NITRIL FLUORIDES  
OXYFLUORIDES  
OXYGEN FLUORIDES  
OZONE FLUORIDE  
PERCHLORYL FLUORIDES  
PERFLUOROALKANE  
PERFLUOROGUANIDINE  
PLUTONIUM FLUORIDES  
POLYTETRAFLUOROETHYLENE  
PROTACTINIUM FLUORIDES  
SODIUM FLUORIDES  
STRONTIUM FLUORIDES  
SULFUR FLUORIDES  
TECHNETIUM FLUORIDES  
TETRAFLUOROHYDRAZINE  
THORIUM FLUORIDES  
TRIFLUOROAMINE OXIDE

TUNGSTEN FLUORIDES  
URANIUM FLUORIDES  
ZINC FLUORIDES  
FLUORINE-LIQUID OXYGEN  
USE FLOX  
FLUORINE ORGANIC COMPOUNDS  
0603 1808  
OF ORGANIC FLUORINE COMPOUNDS  
NT CARBON TETRAFLUORIDE  
FLUOROAMINES  
FLUOROCARBONS  
FLUOROHYDROCARBONS  
NITROFLUORAMINES  
PERFLUOROALKANE  
PERFLUOROGUANIDINE  
TRIFLUOROAMINE OXIDE  
BT #FLUORINE COMPOUNDS  
FLURO COMPOUNDS  
#HALOGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
FLUORITE  
1806 2601  
BT #CALCIUM COMPOUNDS  
#FLUORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
#MINERALS  
FLURO COMPOUNDS  
0403 0603 1804 1808  
NT CARBON TETRAFLUORIDE  
CRYOLITE  
DIFLUORO COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLUROAMINES  
FLUOROCARBONS  
FLUOROHYDROCARBONS  
NITROFLUORAMINES  
PERFLUOROALKANE  
PERFLUOROGUANIDINE  
POLYTETRAFLUROETHYLENE  
TRIFLUOROAMINE OXIDE  
BT #FLUORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
FLUROAMINES  
0403 1808  
NT NITROFLUORAMINES  
TRIFLUOROAMINE OXIDE  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
#FLUORINE COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLURO COMPOUNDS  
#HALOGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
FLUROCARBONS  
0403 1808  
BT #FLUORINE COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLURO COMPOUNDS  
#HALOGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
RT FLUROHYDROCARBONS  
FLUROHYDROCARBONS  
1808  
NT CARBON TETRAFLUORIDE  
BT #FLUORINE COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLURO COMPOUNDS  
#HALOGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
RT FLUROCARBONS  
FREON  
REFRIGERANTS  
VITON  
FLUROOMICA  
USE FLUROOSILICATES  
MICA  
FLUROSCOPY  
0405 0605 1404 2306 2310 2402  
BT #MEDICAL EQUIPMENT  
X RAY ANALYSIS  
FLUROOSILICATES  
0603 1804  
OF FLUROOMICA  
BT #FLUORINE COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
FLUROPHLOGOPITE  
1806  
BT #MINERALS  
FLUROSPAR  
1806

## NASA THESAURUS (ALPHABETICAL LISTING)

BT #CALCIUM COMPOUNDS  
CALCIUM FLUORIDES  
DIFLUORIDES  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#MINERALS  
FLUSHING  
0505 0602 1504 3407  
RT CLEANING  
EJECTION  
ELUTION  
EXPELLANTS  
LEACHING  
PURGING  
PURIFICATION  
SEPARATION  
VENTING  
WASHING  
FLUTING  
USE GROOVING  
FLUTTER  
0101 0201 1202  
UF AERODYNAMIC BUZZ  
AEROMAGNETO FLUTTER  
NT PANEL FLUTTER  
SUBSONIC FLUTTER  
SUPERSONIC FLUTTER  
TRANSONIC FLUTTER  
BT STRUCTURAL VIBRATION  
#VIBRATION  
RT AERODYNAMIC NOISE  
AERODYNAMIC STABILITY  
AEROELASTICITY  
BENDING  
BENDING VIBRATION  
BOUNDARY LAYER CONTROL  
BUPPETING  
COMPRESSIBILITY EFFECTS  
FLAPPING  
FLIGHT CHARACTERISTICS  
FORCED VIBRATION  
HOVERING  
HYDROFOIL OSCILLATIONS  
INFLUENCE COEFFICIENT  
MISSILE VIBRATION  
RANDOM VIBRATION  
RESONANT VIBRATION  
SELF INDUCED VIBRATION  
SHAKING  
SPACECRAFT MOTION  
TURBULENCE EFFECTS  
UNDAMPED OSCILLATIONS  
VIBRATION SIMULATORS  
#VIBRATION TESTS  
VIBRATIONAL STRESS  
WING OSCILLATIONS  
FLUTTER ANALYSIS  
0101 0201 1202 3203  
BT #STRUCTURAL ANALYSIS  
RT STRUCTURAL VIBRATION  
FLUX  
0101 0705 1202 1902 2311 2402 2405  
2502 3006  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT FLUX (RATE)  
FLUX DENSITY  
FLUX QUANTIZATION  
FLUXES  
#LEVEL (QUANTITY)  
FLUX (RATE PER UNIT AREA)  
USE FLUX DENSITY  
FLUX (RATE)  
2401 2404 2405  
(THE TOTAL EMANATION OF ENERGY,  
MATERIAL OR PARTICLES FROM A SINGLE  
SOURCE PER UNIT TIME--OFTEN USED  
ERRONEOUSLY IN LIEU OF FLUX DENSITY,  
WHICH IS ENERGY, MATERIAL OR PARTICLE  
RATE PER UNIT AREA)  
UF ELECTRON FLUX  
NEUTRON FLUX  
PARTICLE FLUX  
NT HEAT FLUX  
MAGNETIC FLUX  
SOLAR FLUX  
BT #RATES (PER TIME)  
RT BETA PARTICLES

# W. THESAURUS (ALPHABETICAL LISTING)

BRIGHTNESS  
CORPUSCULAR RADIATION  
DOSIMETERS  
#ELECTROMAGNETIC RADIATION  
EMITTANCE  
ENERGY  
FIELD THEORY (PHYSICS)  
FLUX  
FLUX DENSITY  
GAMMA RAYS  
INTENSITY  
#LEVEL (QUANTITY)  
LUMINOUS INTENSITY  
MAGNETIC CIRCUITS  
MAGNETIC INDUCTION  
MAGNETOSTATICS  
PARTICLE BEAMS  
PARTICLE DIFFUSION  
POWER  
RADIANT FLUX DENSITY  
RADIATION  
STEFAN-BOLTZMANN LAW  
FLUX DENSITY  
0705 2402 2403 2405 2902 3303  
(ENERGY, MATERIAL OR PARTICLE RATE PER  
UNIT AREA--THE QUANTITY USUALLY  
MEASURED EXCEPT WHEN THE TOTAL  
EMANATION RATE FROM A SINGLE SOURCE  
CAN BE DETERMINED)  
UF DENSITY (RATE/AREA)  
ENERGY DENSITY  
FLUX (RATE PER UNIT AREA)  
FLUX MAPPING  
POWER DENSITY  
NT CURRENT DENSITY  
ELECTRON FLUX DENSITY  
ILLUMINANCE  
IRRADIANCE  
LUMENS  
LUMINANCE  
LUMINOUS INTENSITY  
NEUTRON FLUX DENSITY  
PARTICLE FLUX DENSITY  
PHOTON DENSITY  
PROTON FLUX DENSITY  
RADIANCE  
RADIANCY  
RADIANT FLUX DENSITY  
SOLAR CONSTANT  
SOLAR FLUX DENSITY  
SOUND INTENSITY  
ZERO SOUND  
BT #RATES (PER TIME)  
RT ALPHA PARTICLES  
ANGULAR DISTRIBUTION  
ATON CONCENTRATION  
DENSITY  
DOSIMETERS  
#ELECTROMAGNETIC RADIATION  
ENERGY  
ENERGY DISTRIBUTION  
FIELD INTENSITY METERS  
FIELD STRENGTH  
FIELD THEORY (PHYSICS)  
FLUX  
FLUX (RATE)  
GAMMA RAYS  
HEAT FLUX  
INTENSITY  
#IRRADIATION  
#LEVEL (QUANTITY)  
LOUDNESS  
MASS DISTRIBUTION  
METEOROID CONCENTRATION  
ONSAGER PHENOMENOLOGICAL  
COEFFICIENT  
POWER  
POWER SPECTRA  
PROTONS  
RADIATION  
RADIATION DISTRIBUTION  
RADIATION HAZARDS  
REMANENCE  
SCATTERING FUNCTIONS  
SOLAR CONSTANT  
SOUND PRESSURE  
#SPECTRA  
X RAY DENSITY MEASUREMENT  
FLUX MAPPING  
USE FLUX DENSITY  
MAPPING

FLUX PUMPS  
1002 2302 2303 2603  
RT MAGNETIC COILS  
#MAGNETIC FIELDS  
SUPERCONDUCTING MAGNETS  
SUPERCONDUCTIVITY  
FLUX QUANTIZATION  
2402  
RT FLUX  
FLUXES  
1504  
RT BRAZING  
FLUX  
LINESTONE  
SOLDERING  
#WELDING  
FLUXMETERS  
USE MAGNETIC MEASUREMENT  
#MEASURING INSTRUMENTS  
FLY BY WIRE CONTROL  
0201 1402 1410 2102 3009  
BT #FLIGHT CONTROL  
RT AIRCRAFT CONTROL  
#GROUND BASED CONTROL  
#SPACECRAFT CONTROL  
FLYBY MISSIONS  
3006 3009 3409  
NT GRAND TOURS  
MARINER-MERCURY 1973  
MARINER VENUS-MERCURY 1973  
RT INTERPLANETARY FLIGHT  
LUNAR FLIGHT  
MARINER PROGRAM  
MISSIONS  
OUTER PLANETS EXPLORERS  
#SPACE FLIGHT  
SPACE MISSIONS  
SWINGBY TECHNIQUE  
TOPS (SPACECRAFT)  
FLYING  
USE FLIGHT  
FLYING BEDSTEAD AIRCRAFT  
USE FLYING PLATFORMS  
FLYING CRANE HELICOPTER  
USE H-17 HELICOPTER  
FLYING PERSONNEL  
0502  
NT AIRCRAFT PILOTS  
ASTRONAUTS  
COSMONAUTS  
FLIGHT CREWS  
ORBITAL WORKERS  
PILOTS (PERSONNEL)  
SPACECREWS  
TEST PILOTS  
BT #PERSONNEL  
RT FLIGHT FITNESS  
FLIGHT TRAINING  
NAVIGATORS  
PILOTS (PERSONNEL)  
FLYING PLATFORM STABILITY  
USE AERODYNAMIC STABILITY  
FLYING PLATFORMS  
0205  
UF FLYING BEDSTEAD AIRCRAFT  
FLYING PLATFORM STABILITY  
BT #V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
RT AIRCRAFT  
GROUND EFFECT MACHINES  
#JET AIRCRAFT  
OBSERVATION AIRCRAFT  
PLATFORMS  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
SUBSONIC AIRCRAFT  
VZ-8 AIRCRAFT  
FLYING QUALITIES  
USE FLIGHT CHARACTERISTICS  
FLYING SPOT SCANNERS  
0701 0702 0905 1506  
BT OPTICAL SCANNERS  
#SCANNERS  
RT #DISPLAY DEVICES  
ELECTRON GUNS  
ELECTRON OPTICS  
IMAGE TUBES  
OSCILLOSCOPES  
PHOTOTUBES  
PICTURE TUBES  
TELEVISION EQUIPMENT

## FOILS

VIDEO EQUIPMENT  
FLYING WING AIRCRAFT  
USE TAILLESS AIRCRAFT  
FLYWHEELS  
0303 1504  
BT #ROTATING BODIES  
ROTORS  
#WHEELS  
RT BALANCING  
ENERGY STORAGE  
ENGINE PARTS  
MECHANICAL ENGINEERING  
REACTION WHEELS  
FM/PM (MODULATION)  
0702 0705 0710 0902 1001 1002  
BT FREQUENCY MODULATION  
#MODULATION  
PHASE MODULATION  
RT DATA TRANSMISSION  
FOAMING  
0602 1704 2601  
RT BENEFICIATION  
PLOTATION  
FOAMS  
SEPARATION  
#SURFACE PROPERTIES  
SWIRLING  
WETTING  
FOAMS  
0603 1809 1810  
RT BUBBLES  
COLLOIDS  
FOAMING  
LOW DENSITY MATERIALS  
POLYURETHANE FOAM  
FOCI  
1412 1902 2306 2307 2310 2402 2403  
RT CENTERS  
FOCUSING  
#GEOMETRY  
LOCI  
OPTICS  
POINTS (MATHEMATICS)  
#RESOLUTION  
FOCUSING  
1412 2306 2307 2310 2402 2403  
NT DEFOCUSING  
PREFOCUSING  
SELF FOCUSING  
RT ADJUSTING  
ASTIGMATISM  
CAMERAS  
DISTANCE  
FOCI  
IMAGE CONTRAST  
IMAGE ENHANCEMENT  
LENSES  
PANORAMIC CAMERAS  
SOLAR REFLECTORS  
STERING  
STIGMATISM  
VIGNETTING  
FORTUNES  
USE PETUSES  
FOG  
0603 1202 2001 2003 3202  
BT AEROSOLS  
COLLOIDS  
DISPERSIONS  
LIQUID-GAS MIXTURES  
#MIXTURES  
#PARTICLES  
RT CLOUDS (METEOROLOGY)  
DROP SIZE  
HAZE  
MIST  
PRECIPITATION (METEOROLOGY)  
SMOG  
SMOKE  
STEAM  
STRATUS CLOUDS  
VISIBILITY  
FOIL BEARINGS  
1501  
BT #BEARINGS  
FOILS  
1504 1704 3202 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #AIRFOILS  
FOILS (MATERIALS)

# FOILS (MATERIALS)

HYDROFOILS  
MULTILAYER INSULATION  
FOILS (MATERIALS)  
1704  
NT METAL FOILS  
RT #AIRFOILS  
FOILS  
HYDROFOILS  
MULTILAYER INSULATION  
THIN PLATES  
POKKER AIRCRAFT  
0201 0204  
NT F-27 AIRCRAFT  
F-28 TRANSPORT AIRCRAFT  
RT AIRCRAFT  
POKKER BOND TESTERS  
USE ADHESION TESTS  
POKKER F 27 AIRCRAFT  
USE F-27 AIRCRAFT  
POKKER F 28 AIRCRAFT  
USE F-28 TRANSPORT AIRCRAFT  
POKKER FRIENDSHIP AIRCRAFT  
USE F-27 AIRCRAFT  
POKKER-PLANCK EQUATION  
1203 2401 2404  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT BOLTZMANN TRANSPORT EQUATION  
BROWNIAN MOVEMENTS  
DENSITY DISTRIBUTION  
DIFFUSION THEORY  
EQUATIONS  
IONIZED GASES  
#STOCHASTIC PROCESSES  
FOLDING  
1504 3407  
UP CRIMPING  
RT BENDING  
BINDING  
CURL (MATERIALS)  
DISTORTION  
FLEXING  
FOLDING FIN AIRCRAFT ROCKET VEHICLE  
3106  
UP PPAR ROCKET VEHICLE  
BT #ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
FOLDING STRUCTURES  
0102 0208 3202  
UP ROGALLO WINGS  
NT SAILWINGS  
RT ANTENNAS  
BALLOONS  
BALLUTES  
#EXPANDABLE STRUCTURES  
FOLDABLE ANTENNAS  
INFLATABLE STRUCTURES  
PADDLES  
PARACHUTES  
PARAGLIDERS  
PARAVULCOONS  
PARAWINGS  
ROTARY WINGS  
#SPACE ERECTABLE STRUCTURES  
SPACECRAFT STRUCTURES  
STRUCTURES  
VARIABLE GEOMETRY STRUCTURES  
VARIABLE SWEEP WINGS  
FOLIAGE  
0404 0409  
BT #PLANTS (BOTANY)  
RT DEFOLIANTS  
LEAVES  
TIMBER VIGOR  
POLIC ACID  
0403 0404 1808  
UP VITAMIN M  
BT #ACIDS  
AMINO ACIDS  
CARBOXYLIC ACIDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
VITAMINS  
FOOD  
0403 0404 0405 0505  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BEVERAGES  
BROTHS

CANNING  
#CARBOHYDRATES  
DECONTAMINATION  
DEHYDRATED FOOD  
DIETS  
DIGESTING  
DISTRIBUTING  
EARTH RESOURCES  
EATING  
EGGS  
FATS  
FISHES  
FLOUR (FOOD)  
FROZEN FOODS  
FRUITS  
GELATINS  
LEGUMINOUS PLANTS  
MILK  
NUTRITION  
PEPPERS  
POTATOES  
PRESERVING  
#PROTEINS  
PROVISIONING  
RATIONS  
SERVICES  
SOYBEANS  
SPACE FLIGHT FEEDING  
SPACE RATIONS  
STARCHES  
SUGARS  
VEGETABLES  
VITAMINS  
YEAST  
FOOD INTAKE  
0404 0405 0408  
RT SPACE FLIGHT FEEDING  
FORBIDDEN BANDS  
1203 2306 2401 2402 2403 2405  
BT ENERGY BANDS  
RT BAND STRUCTURE OF SOLIDS  
ELECTRON ENERGY  
FORBIDDEN TRANSITIONS  
FREE ELECTRONS  
LATTICE VIBRATIONS  
WAVE EQUATIONS  
FORBIDDEN TRANSITIONS  
1203 2403 2405  
RT ELECTRON TRANSITIONS  
FORBIDDEN BANDS  
FRANCK-CONDON PRINCIPLE  
QUANTUM THEORY  
SOLID STATE PHYSICS  
TRANSITION  
WAVE FUNCTIONS  
FORBUSH DECREASES  
1302 2402 2901 2902  
UP FORBUSH EFFECT  
RT COSMIC RAYS  
MAGNETIC STORMS  
SOLAR FLARES  
SOLAR FURNACES  
SOLAR STORMS  
FORBUSH EFFECT  
USE FORBUSH DECREASES  
FORCE  
2304 2308 2311  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP REPULSION  
RT ACCELERATION (PHYSICS)  
#AERODYNAMIC FORCES  
ATTRACTION  
CENTRIFUGAL FORCE  
CENTRIPETAL FORCE  
ELECTRIC FIELD STRENGTH  
HIGH IMPULSE  
#INERTIA  
KINETICS  
LINES OF FORCE  
LORENTZ FORCE  
NEWTON  
NONCONSERVATIVE FORCES  
NULL ZONES  
PONDEROMOTIVE FORCES  
#PRESSURE  
PULLING  
PUSHING  
#THRUST  
THRUST MEASUREMENT  
TORQUE

# NASA THESAURUS (ALPHABETICAL LISTING)

TORSION  
VAN DER WAAL FORCES  
WEIGHT (MASS)  
ZERO FORCE CURVES  
FORCE DISTRIBUTION  
1309 2304 2307 2308 2311  
UP LIFT DISTRIBUTION  
NORMAL FORCE DISTRIBUTION  
BT #DISTRIBUTION (PROPERTY)  
RT AERODYNAMIC COEFFICIENTS  
AERODYNAMIC LOADS  
ANGULAR DISTRIBUTION  
CHARGE DISTRIBUTION  
ENERGY DISTRIBUTION  
INFLUENCE COEFFICIENT  
LIFT DRAG RATIO  
#LOADS (FORCES)  
MASS DISTRIBUTION  
MOMENT DISTRIBUTION  
SCALE EFFECT  
STRESS CONCENTRATION  
SWEEP EFFECT  
WING LOADING  
FORCE FIELDS  
USE FIELD THEORY (PHYSICS)  
FORCE-FREE MAGNETIC FIELDS  
2307  
BT #MAGNETIC FIELDS  
FORCED CONVECTION  
0602 1203 3303  
BT CONVECTION  
RT BLOWING  
CONVECTIVE HEAT TRANSFER  
FREE CONVECTION  
HEAT TRANSFER  
LAMINAR FLOW  
PRANDTL NUMBER  
STANTON NUMBER  
FORCED OSCILLATION  
USE FORCED VIBRATION  
FORCED VIBRATION  
1504 2308 3203  
UP FORCED OSCILLATION  
FORCED VIBRATORY MOTION EQUATIONS  
BT #VIBRATION  
RT FLUTTER  
FREE VIBRATION  
RANDOM VIBRATION  
SELF EXCITATION  
SELF INDUCED VIBRATION  
FORCED VIBRATORY MOTION EQUATIONS  
USE EQUATIONS  
FORCED VIBRATION  
FOREARM  
0404  
BT #ANATOMY  
#APPENDAGES  
ARM (ANATOMY)  
LIMBS (ANATOMY)  
#FOREBODIES  
0101 0102 3110  
NT ABLATIVE NOSE CONES  
NOSE CONES  
NOSES (FOREBODIES)  
ROCKET NOSE CONES  
RT AFTERBODIES  
BLUFF BODIES  
BLUNT BODIES  
BOWS  
CENTERBODIES  
CYLINDRICAL BODIES  
HAMMERHEAD CONFIGURATION  
LEADING EDGES  
#FORECASTING  
1905 2003 3401 3402  
UP FORECASTS  
NT LONG RANGE WEATHER FORECASTING  
NUMERICAL WEATHER FORECASTING  
PERFORMANCE PREDICTION  
PREDICTION ANALYSIS TECHNIQUES  
STATISTICAL WEATHER FORECASTING  
TECHNOLOGICAL FORECASTING  
WEATHER FORECASTING  
RT ANALYZING  
ASTROLOGY  
BUDGETING  
CONFIDENCE LIMITS  
CORRELATION  
CURVE FITTING  
ESTIMATES  
ESTIMATING  
EVALUATION

# NASA THESAURUS (ALPHABETICAL LISTING)

EXPECTATION  
 EXTRAPOLATION  
 #MANAGEMENT  
 MANAGEMENT METHODS  
 MANAGEMENT PLANNING  
 MATHEMATICAL MODELS  
 MAXIMUM LIKELIHOOD ESTIMATES  
 MISSION PLANNING  
 OPERATIONS RESEARCH  
 PLANNING  
 #PREDICTIONS  
 PROBABILITY THEORY  
 PROJECT PLANNING  
 PROJECTION  
 REGRESSION ANALYSIS  
 REGRESSION COEFFICIENTS  
 RELIABILITY  
 RESERVES  
 RISK  
 SCHEDULING  
 #STATISTICAL ANALYSIS  
 STATISTICAL DISTRIBUTIONS  
 SYSTEMS ENGINEERING  
 TIME SERIES ANALYSIS  
 TRENDS  
 FORECASTS  
 USE #FORECASTING  
 FOREHEAD  
 0404  
 BT FACE (ANATOMY)  
 FOREIGN BODIES  
 0203 0405 3005  
 RT AIRCRAFT HAZARDS  
 BODIES  
 #INJURIES  
 METEORITES  
 #FOREIGN POLICY  
 3401 3402 3403 3409  
 NT INTERNATIONAL COOPERATION  
 INTERNATIONAL RELATIONS  
 RT BUDGETS  
 EUROPEAN SPACE PROGRAMS  
 FOREIGN TRADE  
 3402 3403  
 RT ECONOMICS  
 FOREST FIRE DETECTION  
 1401 1404 1409 1412  
 BT #DETECTION  
 RT AERIAL PHOTOGRAPHY  
 DETECTORS  
 INFRARED DETECTORS  
 INFRARED INSTRUMENTS  
 INFRARED PHOTOGRAPHY  
 INFRARED SCANNERS  
 #MEASURING INSTRUMENTS  
 OBSERVATION  
 RADIOMETERS  
 SATELLITE-BORNE PHOTOGRAPHY  
 SURVEILLANCE  
 FORESTS  
 0404 0409  
 BT EARTH RESOURCES  
 RT CONSERVATION  
 DEFOLIANTS  
 #PLANTS (BOTANY)  
 TIMBER IDENTIFICATION  
 TIMBER INVENTORY  
 TIMBER VIGOR  
 TREES (PLANTS)  
 FORGING  
 0602 1507 1701 1704  
 UP METAL FORGING  
 BT #FORMING TECHNIQUES  
 #METAL WORKING  
 RT AUSFORMING  
 BILLETS  
 BULGING  
 CASTING  
 COINING  
 COLD WORKING  
 #HEAT TREATMENT  
 HOT PRESSING  
 HOT WORKING  
 PIERCING  
 PRESSING (FORMING)  
 ROLLING  
 STAMPING  
 FORKS  
 1504  
 RT CONVEYORS  
 HOOKS

FORM  
 USE SHAPES  
 FORM FACTORS  
 2402 2403  
 RT APPROXIMATION  
 COUPLING COEFFICIENTS  
 FUNCTIONAL ANALYSIS  
 HARMONIC ANALYSIS  
 #RECTIFIERS  
 SCATTERING COEFFICIENTS  
 SERIES (MATHEMATICS)  
 SQUARE WAVES  
 #TRANSDUCERS  
 VARIABLE  
 WAVEFORMS  
 X RAY SCATTERING  
 FORM PERCEPTION  
 USE SPACE PERCEPTION  
 FORMALDEHYDE  
 0403 1808  
 BT ALDEHYDES  
 RT PHENOL FORMALDEHYDE  
 FORMALISM  
 1902  
 RT COMPUTER PROGRAMMING  
 DYNAMIC PROGRAMMING  
 LINEAR PROGRAMMING  
 LOGIC  
 NONLINEAR PROGRAMMING  
 PARAMETERIZATION  
 SCHEDULING  
 FORMAT  
 0802  
 RT COMPUTER PROGRAMMING  
 #DOCUMENTS  
 EDITING  
 PRINTOUTS  
 RECORDS  
 SYNTAX  
 TEXTS  
 FORMATES  
 0403 0603 1808  
 NT CHLOROPORMATE  
 NITROFORMATES  
 RT FORMIC ACID  
 FORMATION  
 0409 1305  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED -- CONSULT THE TERMS  
 LISTED BELOW)  
 RT FORMATIONS  
 #GROWTH  
 NUCLEATION  
 STRATIGRAPHY  
 FORMATION HEAT  
 USE HEAT OF FORMATION  
 FORMATIONS  
 1305  
 RT FORMATION  
 FRACTURING  
 GAS INJECTION  
 GEOLOGICAL FAULTS  
 #GEOLOGY  
 GEOPHYSICS  
 LAYERS  
 MOUNTAINS  
 OUTCROPS  
 PALEONTOLOGY  
 PERFORATING  
 PERMEABILITY  
 PETROLOGY  
 POROSITY  
 ROCKS  
 #SOILS  
 STAIRSTEPS  
 STRATIGRAPHY  
 WETTABILITY  
 FORMHYDROXANIC ACID  
 0403 1808  
 BT #ACIDS  
 #ALIPHATIC COMPOUNDS  
 AMIDES  
 CARBOXYLIC ACIDS  
 #NITROGEN COMPOUNDS  
 FORMIC ACID  
 0403 0603 1808  
 BT #ACIDS  
 #ALIPHATIC COMPOUNDS  
 CARBOXYLIC ACIDS  
 RT FORMATES  
 FORMICA  
 1801 1805

FORTRAN  
 RT LAMINATES  
 POLYMERS  
 THERMOSETTING RESINS  
 #FORMING TECHNIQUES  
 1504 3407  
 (TECHNIQUES OF SHAPING ITEM)  
 UP METAL FORMING  
 RT AUSFORMING  
 BLANKING (CUTTING)  
 CASTING  
 CENTRIFUGAL CASTING  
 COINING  
 COLD ROLLING  
 COLD WORKING  
 ELECTROFORMING  
 ELECTROHYDRAULIC FORMING  
 EXPLOSIVE FORMING  
 EXTRUDING  
 FORMING  
 HOT WORKING  
 HYDROSPINNING  
 INVESTMENT CASTING  
 MAGNETIC FORMING  
 METAL DRAWING  
 METAL SPINNING  
 PRESSING (FORMING)  
 PROPELLANT CASTING  
 ROLL FORMING  
 SLIP CASTING  
 STAMPING  
 RT CUTTING  
 #DEPOSITION  
 ELECTROMAGNETIC HAMMERS  
 #MACHINING  
 #METAL WORKING  
 SPRAYING  
 FORMS (PAPER)  
 0802  
 RT BLANKS  
 DATA ACQUISITION  
 FORMULAS  
 0505 0603 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #COMPUTATION  
 FORMULAS (MATHEMATICS)  
 FORMULATIONS  
 FORMULAS (MATHEMATICS)  
 1902  
 UP EXPRESSIONS (MATHEMATICS)  
 NT BETHE-HEITLER FORMULA  
 BT #MATHEMATICAL LOGIC  
 RT FORMULAS  
 MATHEMATICS  
 FORMULATIONS  
 0603 1701 1805 1902  
 RT ADMIXTURES  
 COMPOSITION  
 FORMULAS  
 INGREDIENTS  
 #MIXTURES  
 PARAMETERIZATION  
 STOICHIOMETRY  
 FORSTERITE  
 0603 1804 1806  
 BT #MAGNESIUM COMPOUNDS  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 RT OLIVINE  
 REFRACTORIES  
 FORTISAN (TRADEMARK)  
 1805 1811  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 CELLULOSE  
 FABRICS  
 #FIBERS  
 POLYSACCHARIDES  
 SYNTHETIC FIBERS  
 RT PARACHUTE FABRICS  
 FORTRAN  
 0802  
 UP FAP (PROGRAMMING LANGUAGE)  
 #LANGUAGES  
 MACHINE ORIENTED LANGUAGES  
 RT COBOL  
 COMPILERS  
 COMPUTER PROGRAMMING  
 PL/1

# FORWARD SCATTERING

FORWARD SCATTERING  
2402 2403  
BT #SCATTERING  
RT BACKSCATTERING  
LIGHT SCATTERING  
NUCLEAR SCATTERING  
SCATTER PROPAGATION  
FOSSIL METEORITE CRATERS  
USE FOSSILS  
METEORITE CRATERS  
FOSSILS  
0404 1306  
UP FOSSIL METEORITE CRATERS  
RT PALEONTOLOGY  
RADIOACTIVE AGE DETERMINATION  
POSTER THEORY  
1001 2304  
RT NETWORK ANALYSIS  
REACTANCE  
#RESONANCE  
THEORIES  
FOULING  
1504 1505 1702 3407  
RT CONTAMINATION  
CORROSION  
#DEPOSITION  
ICE FORMATION  
PLUGGING  
RETARDING  
FOULIS THEOREM  
1902 1903  
BT #THEOREMS  
FOUNDATIONS  
1902 3203 3406  
UP BASES (FOUNDATIONS)  
STRUCTURAL FOUNDATIONS  
NT PILE FOUNDATIONS  
RT BASEMENTS  
BASES  
CAISSONS  
EXCAVATION  
OVERCONSOLIDATION  
PAD  
PAVEMENTS  
SKIRTS  
#STRUCTURAL MEMBERS  
STRUCTURES  
SUBSTRUCTURES  
SUPPORTS  
FOUNDRIES  
0602 1504 1704  
BT INDUSTRIAL PLANTS  
RT FURNACES  
METALLURGY  
MOLDS  
FOUR BODY PROBLEM  
1902 2308 2311  
RT CELESTIAL MECHANICS  
MANY BODY PROBLEM  
#ORBITS  
#PERTURBATION  
PROBLEMS  
THREE BODY PROBLEM  
FOURIER ANALYSIS  
1902 2311  
NT FOURIER SERIES  
BT #ANALYSIS (MATHEMATICS)  
RT AUTOCORRELATION  
DIFFERENTIAL EQUATIONS  
DIVERGENCE  
EXPONENTIAL FUNCTIONS  
FREQUENCY DISTRIBUTION  
HARMONIC ANALYSIS  
HARMONIC EXCITATION  
HARMONIC FUNCTIONS  
HARMONIC GENERATIONS  
HARMONIC OSCILLATION  
HARMONICS  
INFORMATION THEORY  
LINEAR TRANSFORMATIONS  
MEASURE AND INTEGRATION  
OPERATIONAL CALCULUS  
PERIODIC FUNCTIONS  
PERIODIC VARIATIONS  
REAL VARIABLES  
SIMPLE HARMONIC MOTION  
TIME SERIES ANALYSIS  
FOURIER-BESSEL TRANSFORMATIONS  
1902  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
#FUNCTIONS (MATHEMATICS)

REAL VARIABLES  
TRANSFORMATIONS (MATHEMATICS)  
RT DIFFERENTIAL EQUATIONS  
SERIES (MATHEMATICS)  
FOURIER LAW  
1902 2311  
BT #LAWS  
RT THERMAL CONDUCTIVITY  
FOURIER SERIES  
1902  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
FOURIER ANALYSIS  
REAL VARIABLES  
SERIES (MATHEMATICS)  
RT GIBBS PHENOMENON  
FOURIER TRANSFORMATION  
1411 1902  
BT #ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
#FUNCTIONS (MATHEMATICS)  
INTEGRAL TRANSFORMATIONS  
RT BBGKY HIERARCHY  
WALSH FUNCTION  
FOVEA  
0404  
BT #ANATOMY  
EYE (ANATOMY)  
RETINA  
SENSE ORGANS  
FR-1 SATELLITE  
3107 3401  
BT FRENCH SATELLITE  
#SATELLITES  
FRACTIONATION  
0403 0602  
RT REFINING  
SEPARATION  
FRACTIONS  
1502 1704  
(EXCLUDES MATHEMATICAL CONCEPTS)  
RT COMPONENTS  
FINES  
PARTICLE SIZE DISTRIBUTION  
#RATIOS  
FRACTOGRAPHY  
1704 3203  
BT #PHOTOGRAPHY  
RT BRITTLENESS  
CRACK PROPAGATION  
DUCTILITY  
FATIGUE (MATERIALS)  
FRACTURES (MATERIALS)  
METALLURGY  
FRACTURE MECHANICS  
3203  
UP FAULT MECHANICS  
MOHR CIRCLES  
RT CRACK INITIATION  
CRACK PROPAGATION  
FINITE ELEMENT METHOD  
FRACTURING  
GRIFFITH CRACK  
MECHANICS (PHYSICS)  
RUPTURING  
SOIL MECHANICS  
STRESS TENSORS  
FRACTURE RESISTANCE  
USE FRACTURE STRENGTH  
FRACTURE STRENGTH  
3203  
UP FRACTURE RESISTANCE  
FRACTURE TOUGHNESS  
BT #MECHANICAL PROPERTIES  
RT BRITTLE MATERIALS  
BRITTLENESS  
CRACK INITIATION  
CRACK PROPAGATION  
CREEP RUPTURE STRENGTH  
DUCTILITY  
HARDNESS  
RESISTANCE  
TOUGHNESS  
YIELD STRENGTH  
FRACTURE TOUGHNESS  
USE FRACTURE STRENGTH  
FRACTURES (MATERIALS)  
1704 2601  
RT CRACKS  
#DAMAGE  
#DEFORMATION  
FAILURE

# NASA THESAURUS (ALPHABETICAL LISTING)

FRACTOGRAPHY  
FRACTURING  
1504 3407  
RT BRITTLENESS  
CHIPPING  
CRACK PROPAGATION  
CRACKING (FRACTURING)  
CUTTING  
FLAKING  
FORNATIONS  
FRACTURE MECHANICS  
FRAGMENTATION  
FRAGMENTS  
METAL FATIGUE  
PERFORATING  
SEPARATION  
SPALLING  
SPLITTING  
STRESS FUNCTIONS  
STRUCTURAL FAILURE  
FRAGMENTATION  
0602 1504 3401 3407  
UP SHATTERING  
RT ACOUSTIC STREAMING  
BREAKING  
#BURSTS  
CHIPPING  
COMMINUTION  
FRACTURING  
FRAGMENTS  
PENETRATION  
SABOT PROJECTILES  
SHRAPNEL  
SPALLING  
TERMINAL BALLISTICS  
FRAGMENTS  
1502 1704 3404  
RT CHIPS  
DEBRIS  
FRACTURING  
FRAGMENTATION  
SHRAPNEL  
FRAME PHOTOGRAPHY  
1407  
BT #PHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
FRAMING CAMERAS  
HIGH SPEED CAMERAS  
FRAMES  
0702 1407 1504 3202 3203  
NT AIRFRAMES  
CHASSIS  
UNDERCARRIAGES  
CARRIAGES  
RT SPRINGS (ELASTIC)  
STRUCTURES  
STRUTS  
SUPPORTS  
TRUSSES  
FRAMING CAMERAS  
1412  
BT CAMERAS  
HIGH SPEED CAMERAS  
#OPTICAL EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT  
RT FRAME PHOTOGRAPHY  
ROTATING MIRRORS  
FRANCE  
1305  
RT EUROPE  
FRENCH SPACE PROGRAMS  
NATIONS  
FRANCIUM  
0603 2406  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
#METALS  
FRANCK-CONDON PRINCIPLE  
2404 2405 2601  
RT BORN-OPPENHEIMER APPROXIMATION  
COLOR CENTERS  
CONDUCTION BANDS  
ELECTRON TRANSITIONS  
FORBIDDEN TRANSITIONS  
OPTICAL TRANSITION  
FRAUNHOFER LINE DISCRIMINATORS  
0601 1411 2404  
BT DISCRIMINATORS  
RT ABSORPTION SPECTRA  
FRAUNHOFER LINES  
LUMINESCENCE  
#MEASURING INSTRUMENTS



# NASA THESAURUS (ALPHABETICAL LISTING)

# #FREQUENCIES

SPECTROSCOPIC ANALYSIS  
 #SPECTROSCOPY  
 FRAUNHOFER LINES  
 1411 1902 2306  
 BT ABSORPTION SPECTRA  
 ELECTROMAGNETIC SPECTRA  
 LINE SPECTRA  
 RADIATION SPECTRA  
 #SPECTRA  
 SPECTRAL BANDS  
 RT ABSORPTION SPECTROSCOPY  
 FRAUNHOFER LINE DISCRIMINATORS  
 SOLAR SPECTRA  
 FRAUNHOFER REGION  
 USE FAR FIELDS  
 FREDHOLM EQUATIONS  
 1902  
 UP FREDHOLM OPERATORS  
 BT #ANALYSIS (MATHEMATICS)  
 FUNCTIONAL ANALYSIS  
 INTEGRAL EQUATIONS  
 RT POSEBANCHUK THEOREM  
 FREDHOLM OPERATORS  
 USE FREDHOLM EQUATIONS  
 OPERATORS (MATHEMATICS)  
 FREE ATMOSPHERE  
 1302 1308 2003  
 BT #EARTH ATMOSPHERE  
 FREE BOUNDARIES  
 1202 1902 2308  
 BT #BOUNDARIES  
 RT FLUID BOUNDARIES  
 FREE JETS  
 #INTERFACES  
 JET FLOW  
 JET MIXING FLOW  
 JET STREAMS (METEOROLOGY)  
 LIQUID-LIQUID INTERFACES  
 LIQUID SURFACES  
 LIQUID-VAPOR INTERFACES  
 FREE CONVECTION  
 1203 3303  
 UP THERMAL CONVECTION  
 BT CONVECTION  
 RT CONVECTION CURRENTS  
 CONVECTIVE FLOW  
 CONVECTIVE HEAT TRANSFER  
 FORCED CONVECTION  
 FREE FLOW  
 LAMINAR FLOW  
 POROUS BOUNDARY LAYER CONTROL  
 THERMOSIPHONS  
 TURBULENT FLOW  
 FREE ELECTRONS  
 0604 2401 2403  
 BT CHARGE CARRIERS  
 CHARGED PARTICLES  
 ELECTRONS  
 ELEMENTARY PARTICLES  
 #PARTICLES  
 RT BRILLOUIN ZONES  
 CONDUCTION ELECTRONS  
 ELECTRON AVALANCHE  
 ELECTRON DENSITY (CONCENTRATION)  
 ELECTRON GAS  
 FORBIDDEN BANDS  
 PLASMA FREQUENCIES  
 RECOMBINATION COEFFICIENT  
 FREE ENERGY  
 2311 3304  
 NT GIBBS FREE ENERGY  
 BT #THERMODYNAMIC PROPERTIES  
 RT CHEMICAL ENERGY  
 ENERGY  
 ENERGY OF FORMATION  
 ENTHALPY  
 GIBBS-HELMHOLTZ EQUATIONS  
 INTERNAL ENERGY  
 LEVEL  
 MOLECULAR ENERGY LEVELS  
 THERMAL ENERGY  
 THERMODYNAMICS  
 FREE FALL  
 0408 2308 3006  
 RT BALLISTIC TRAJECTORIES  
 FALLING SPHERES  
 PARACHUTE DESCENT  
 WEIGHTLESSNESS  
 FREE FLIGHT  
 0201  
 RT FLIGHT

FREE FLIGHT TEST APPARATUS  
 0201 1108  
 RT FLIGHT TESTS  
 TEST EQUIPMENT  
 FREE FLOW  
 0101 1201 1202 1203 2404  
 UP FREE STREAM EFFECTS  
 FREE STREAMS  
 BT #FLUID FLOW  
 RT FREE CONVECTION  
 FREE JETS  
 VOID RATIO  
 FREE JETS  
 1201 1202 1203  
 BT FLUID JETS  
 RT FREE BOUNDARIES  
 FREE FLOW  
 JET BOUNDARIES  
 JET FLOW  
 JETS  
 FREE MOLECULAR FLOW  
 0101 1203 2404  
 BT #FLUID FLOW  
 GAS FLOW  
 RT CONTINUUM FLOW  
 #KINETIC THEORY  
 KNUDSEN FLOW  
 MOLECULAR BEAMS  
 RAREFIED GAS DYNAMICS  
 RAREFIED GASES  
 SLIP FLOW  
 TRANSITION FLOW  
 FREE OSCILLATIONS  
 USE FREE VIBRATION  
 FREE RADICALS  
 0403 0603 1804  
 RT ATOMS  
 CARBENES  
 #IONS  
 RADICALS  
 TRIVALENT IONS  
 VINYL RADICAL  
 FREE STREAM EFFECTS  
 USE FREE FLOW  
 FREE STREAMS  
 USE FREE FLOW  
 FREE VIBRATION  
 2308 3203  
 UP FREE OSCILLATIONS  
 BT #VIBRATION  
 RT FORCED VIBRATION  
 LINEAR VIBRATION  
 PROTON PRECESSION  
 SELF EXCITATION  
 SELF INDUCED VIBRATION  
 VIBRATION MODE  
 FREEDOM FIGHTER AIRCRAFT  
 USE F-5 AIRCRAFT  
 FREEDOM 7  
 3104  
 BT #MANNED SPACECRAFT  
 MERCURY SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SOFT LANDING SPACECRAFT  
 #SPACE CAPSULES  
 RT MERCURY MR-3 FLIGHT  
 FREEZING  
 0603 2404 3303 3304  
 NT VIBRATIONAL FREEZING  
 ZONE MELTING  
 BT #PHASE TRANSFORMATIONS  
 RT ANTIFREEZES  
 CLOUD GLACIATION  
 COLD TRAPS  
 #COOLING  
 CRYSTALLIZATION  
 FROST  
 ICE FORMATION  
 ICE NUCLEI  
 LOW TEMPERATURE  
 MELTING  
 PRESERVING  
 REFRIGERATING  
 SEA ICE  
 SOLIDIFICATION  
 SOLIDIFIED GASES  
 FREEZING POINTS  
 USE MELTING POINTS  
 FREIGHT  
 USE #CARGO

FREIGHT COSTS  
 0204 1103 1502 3402  
 BT COSTS  
 RT #CARGO  
 FREIGHTERS  
 #TRANSPORTATION  
 FREIGHTERS  
 3404  
 RT FREIGHT COSTS  
 #TRANSPORTATION  
 FRENCH GUIANA  
 1305  
 RT NATIONS  
 SOUTH AMERICA  
 FRENCH SATELLITE  
 3107  
 NT DIADENE SATELLITE  
 PR-1 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 FRENCH SPACE PROGRAMS  
 3409  
 BT SPACE PROGRAMS  
 RT EUROPEAN SPACE PROGRAMS  
 FRANCE  
 INTERNATIONAL COOPERATION  
 RESEARCH PROJECTS  
 SPACE EXPLORATION  
 SPACE MISSIONS  
 FRENKEL DEFECTS  
 2601 2603  
 BT CRYSTAL DEFECTS  
 #DEFECTS  
 POINT DEFECTS  
 VACANCIES (CRYSTAL DEFECTS)  
 FREON  
 0403 1803 1808  
 RT AIR CONDITIONING  
 COOLANTS  
 #COOLING  
 COOLING SYSTEMS  
 FLUOROHYDROCARBONS  
 GAS COOLING  
 REFRIGERANTS  
 REFRIGERATING  
 #FREQUENCIES  
 0702 0705 0709 0710 0905 1002 2308 2402  
 UP FREQUENCY BANDS  
 NT AUDIO FREQUENCIES  
 BEAT FREQUENCIES  
 BROADBAND  
 C BAND  
 CARRIER FREQUENCIES  
 CRITICAL FREQUENCIES  
 CYCLOTRON FREQUENCY  
 EXTREMELY HIGH FREQUENCIES  
 EXTREMELY LOW FREQUENCIES  
 EXTREMELY LOW RADIO FREQUENCIES  
 HIGH FREQUENCIES  
 INFRASONIC FREQUENCIES  
 INTERMEDIATE FREQUENCIES  
 IONIZATION FREQUENCIES  
 LOW FREQUENCIES  
 MAXIMUM USABLE FREQUENCY  
 MICROWAVE FREQUENCIES  
 NIQUIST FREQUENCIES  
 P BAND  
 PLASMA FREQUENCIES  
 RADIO FREQUENCIES  
 RESONANT FREQUENCIES  
 SUBAUDIBLE FREQUENCIES  
 SUPERHIGH FREQUENCIES  
 SWEEP FREQUENCY  
 ULTRAHIGH FREQUENCIES  
 VERY HIGH FREQUENCIES  
 VERY LOW FREQUENCIES  
 AEOLIAN TONES  
 AMPLITUDES  
 BANDS  
 BANDWIDTH  
 BROADBAND AMPLIFIERS  
 CHANNEL CAPACITY  
 CHANNELS  
 FREQUENCY DISTRIBUTION  
 FREQUENCY RANGES  
 HARMONICS  
 LINE SPECTRA  
 LONGITUDINAL WAVES  
 MICROCHANNELS  
 MILLIMETER WAVES  
 PITCH  
 RADIO WAVES

# FREQUENCY AMPLIFIERS

SPECTRAL BANDS  
STANDING WAVES  
SUBMILLIMETER WAVES  
SUPERHARMONICS  
FREQUENCY AMPLIFIERS  
USE #AMPLIFIERS  
FREQUENCY ANALYZERS  
0705 1001 1002 1411 2311  
RT FREQUENCY DISTRIBUTION  
FREQUENCY MEASUREMENT  
FREQUENCY RESPONSE  
FREQUENCY SYNTHESIZERS  
HARMONIC ANALYSIS  
INTERMODULATION  
OSCILLOSCOPES  
SELECTIVE PAGING  
SIGNAL ANALYSIS  
SPECTRUM ANALYSIS  
SWEEP FREQUENCY  
TEST EQUIPMENT  
VIBRATION MEASUREMENT  
FREQUENCY ASSIGNMENT  
0702 0705 0707  
RT #COMMUNICATING  
MAXIMUM USABLE FREQUENCY  
FREQUENCY BANDS  
USE #FREQUENCIES  
FREQUENCY COMPRESSION DEMODULATORS  
0905 1002  
BT DEMODULATORS  
RT FREQUENCY CONVERTERS  
FREQUENCY MODULATION  
FREQUENCY CONTROL  
0702 0705 1001 1003 2306 2310 2402  
UF FREQUENCY REGULATION  
BT AUTOMATIC FREQUENCY CONTROL  
RT #REGULATORS  
RT AUTODINES  
CONTROL  
CRYSTAL OSCILLATORS  
FREQUENCY MODULATION  
FREQUENCY STABILITY  
FREQUENCY SYNCHRONIZATION  
QUARTZ CRYSTALS  
SIGNAL STABILIZATION  
FREQUENCY CONVERSION  
USE FREQUENCY CONVERTERS  
FREQUENCY CONVERTERS  
0903  
UF FREQUENCY CONVERSION  
FREQUENCY TRANSLATION  
BT DOWN-CONVERTERS  
FREQUENCY DIVIDERS  
FREQUENCY MULTIPLIERS  
FREQUENCY SYNTHESIZERS  
PARAMETRIC FREQUENCY CONVERTERS  
BT CONVERTERS  
FREQUENCY COMPRESSION DEMODULATORS  
FREQUENCY SYNCHRONIZATION  
HARMONIC GENERATORS  
MIXING CIRCUITS  
PARAMETRIC AMPLIFIERS  
PULSE WIDTH AMPLITUDE CONVERTERS  
FREQUENCY DISTRIBUTION  
1308 2311  
(OF CYCLIC VARIATIONS)  
BT #DISTRIBUTION (PROPERTY)  
RT #CYCLES  
FOURIER ANALYSIS  
#FREQUENCIES  
FREQUENCY ANALYZERS  
FREQUENCY RANGES  
SUBAUDIBLE FREQUENCIES  
FREQUENCY DIVIDERS  
0701 0702 0708 1002  
BT FREQUENCY CONVERTERS  
RT FREQUENCY DIVISION MULTIPLEXING  
FREQUENCY MULTIPLIERS  
FREQUENCY SYNCHRONIZATION  
FREQUENCY DIVISION MULTIPLEXING  
0702 0706 0708  
BT MULTIPLEXING  
RT FREQUENCY DIVIDERS  
TIME DIVISION MULTIPLEXING  
FREQUENCY MEASUREMENT  
0905 1601  
RT ACOUSTIC MEASUREMENTS  
ACOUSTIC ANALYZERS  
MEASUREMENT  
TIME MEASUREMENT  
VIBRATION MEASUREMENT

## FREQUENCY MODULATION

1001 1002 2402  
RT FEEDBACK FREQUENCY MODULATION  
FM/PM (MODULATION)  
FREQUENCY SHIFT KEYING  
PULSE FREQUENCY MODULATION  
PULSE FREQUENCY MODULATION  
TELEMETRY  
BT #MODULATION  
RT AMPLITUDE MODULATION  
AUTOMATIC FREQUENCY CONTROL  
CAPTURE EFFECT  
DEMODULATION  
DEMODULATORS  
FREQUENCY COMPRESSION DEMODULATORS  
FREQUENCY CONTROL  
INTERMODULATION  
LIGHT MODULATION  
MODULATORS  
PHASE MODULATION  
PULSE MODULATION  
VOCODERS  
FREQUENCY MODULATION PHOTOMULTIPLIERS  
0903 0905 1002 2402  
BT #AMPLIFIERS  
CATHODES  
COLD CATHODE TUBES  
CURRENT AMPLIFIERS  
#ELECTRODES  
PHOTOMULTIPLIER TUBES  
PHOTOTUBES  
TUBE CATHODES  
FREQUENCY MULTIPLIERS  
0906 2501 2502  
BT FREQUENCY CONVERTERS  
RT FREQUENCY DIVIDERS  
FREQUENCY RANGES  
1002 2402  
BT OCTAVES  
RADIO RANGE  
SUBAUDIBLE FREQUENCIES  
BT #RANGE (EXTREMES)  
RT BANDWIDTH  
#FREQUENCIES  
FREQUENCY DISTRIBUTION  
FREQUENCY RESPONSE  
FREQUENCY STANDARDS  
FREQUENCY REGULATION  
USE FREQUENCY CONTROL  
FREQUENCY RESPONSE  
0904 1002 2402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT #RESPONSES  
RT #ACUITY  
BROADBAND  
DISTRIBUTED AMPLIFIERS  
#DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
FREQUENCY ANALYZERS  
FREQUENCY RANGES  
LINEAR FILTERS  
LINEAR RECEIVERS  
LOG PERIODIC ANTENNAS  
LOGARITHMIC RECEIVERS  
#PERCEPTION  
RAMP FUNCTIONS  
#SENSITIVITY  
SHEAR  
STEP FUNCTIONS  
STROKING TESTS  
THRESHOLDS (PERCEPTION)  
FREQUENCY SCANNING  
0702 0904 1301  
BT #SCANNING  
RT PANORAMIC SCANNING  
RADAR SCANNING  
SPECTRUM ANALYSIS  
SWEEP FREQUENCY  
FREQUENCY SHIFT  
0710 1302 1307 1601 2501 3006  
RT BRILLOUIN EFFECT  
DOPPLER EFFECT  
DOPPLER-PIZZEAU EFFECT  
FREQUENCY SHIFT KEYING  
FREQUENCY STABILITY  
FREQUENCY SYNCHRONIZATION  
SHIFT  
FREQUENCY SHIFT KEYING  
0702 0904 3001  
BT FREQUENCY MODULATION

## NASA THESAURUS (ALPHABETICAL LISTING)

#MODULATION  
RT FREQUENCY SHIFT  
RADIO TRANSMISSION  
FREQUENCY STABILITY  
0905  
UF ACOUSTIC STABILITY  
BT #DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
#STABILITY  
RT CRYSTAL OSCILLATORS  
FREQUENCY CONTROL  
FREQUENCY SHIFT  
#OSCILLATORS  
QUARTZ CRYSTALS  
STABLE OSCILLATIONS  
FREQUENCY STANDARDS  
0902 0905 1308 1601 2401  
BT STANDARDS  
RT ATOMIC CLOCKS  
FREQUENCY RANGES  
GAS LASERS  
LASERS  
RESONATORS  
TIME SIGNALS  
FREQUENCY SYNCHRONIZATION  
0702 0902  
BT SYNCHRONISM  
RT BIT SYNCHRONIZATION  
CAPTURE EFFECT  
FREQUENCY CONTROL  
FREQUENCY CONVERTERS  
FREQUENCY DIVIDERS  
FREQUENCY SHIFT  
HOMODYNE RECEPTION  
SWEEP FREQUENCY  
SYNCHRONIZED OSCILLATORS  
FREQUENCY SYNTHESIZERS  
0905 1003  
BT FREQUENCY CONVERTERS  
SIGNAL GENERATORS  
RT FREQUENCY ANALYZERS  
MIXING CIRCUITS  
#OSCILLATORS  
FREQUENCY TRANSLATION  
USE FREQUENCY CONVERTERS  
FRESNEL DIFFRACTION  
0710 1407 2401  
BT DIFFRACTION  
RT GRATINGS (SPECTRA)  
INTERFEROMETRY  
FRESNEL INTEGRALS  
0710 1902  
UF FRESNEL-KIRCHHOFF INTEGRALS  
BT #FUNCTIONS (MATHEMATICS)  
RT DIFFRACTION PATTERNS  
TRIGONOMETRIC FUNCTIONS  
WAVE DIFFRACTION  
FRESNEL-KIRCHHOFF INTEGRALS  
USE FRESNEL INTEGRALS  
FRESNEL REFLECTORS  
0710 1301 2311  
BT MIRRORS  
#REFLECTORS  
RT INTERFEROMETRY  
SLITS  
FRESNEL REGION  
0701 0710 2311  
BT #REGIONS  
RT ANTENNA RADIATION PATTERNS  
DIFFRACTION PATTERNS  
FAR FIELDS  
FRETTING  
1704  
RT EROSION  
FATIGUE (MATERIALS)  
WEAR TESTS  
FRETTING CORROSION  
1704  
BT CORROSION  
RT FATIGUE (MATERIALS)  
STRESS CORROSION  
WEAR  
#FRICTION  
1503 2311 1202 1203  
RT AERODYNAMIC DRAG  
DRY FRICTION  
FLOW RESISTANCE  
FRICTION DRAG  
INTERNAL FRICTION  
KINETIC FRICTION  
SKIN FRICTION  
SLIDING FRICTION

# NASA THESAURUS (ALPHABETICAL LISTING)

STATIC FRICTION  
 SUPERSONIC DRAG  
 VISCOUS DRAG  
 RT ABRASION  
 COEFFICIENT OF FRICTION  
 DRAG  
 DRAG REDUCTION  
 ENERGY DISSIPATION  
 #FLUID FLOW  
 FRICTION MEASUREMENT  
 MECHANICAL IMPEDANCE  
 PRESSURE DROP  
 SCORING  
 #SURFACE PROPERTIES  
 SURFACE ROUGHNESS  
 TRACTION  
 WEAR  
 WEAR TESTS  
 WHEEL BRAKES  
 FRICTION COEFFICIENT  
 USE COEFFICIENT OF FRICTION  
 FRICTION DRAG  
 0102 1203 2311 2502 3304  
 UF NONEQUILIBRIUM DRAG  
 SKIN FRICTION DRAG  
 NT AERODYNAMIC DRAG  
 SUPERSONIC DRAG  
 VISCOUS DRAG  
 BT DRAG  
 #DYNAMIC CHARACTERISTICS  
 FLOW RESISTANCE  
 #FRICTION  
 SKIN FRICTION  
 RT FRICTION FACTOR  
 MINIMUM DRAG  
 PRESSURE DRAG  
 SATELLITE DRAG  
 SURFACE ROUGHNESS EFFECTS  
 WAVE DRAG  
 FRICTION FACTOR  
 1902 2308 2311 3408  
 UF FRICTION LOSS COEFFICIENT  
 RT COEFFICIENT OF FRICTION  
 FRICTION DRAG  
 PRESSURE GRADIENTS  
 SKIN FRICTION  
 FRICTION LOSS COEFFICIENT  
 USE FRICTION FACTOR  
 FRICTION MEASUREMENT  
 1406 1703 1805 3303  
 BT #MECHANICAL MEASUREMENT  
 RT ELASTOHYDRODYNAMICS  
 #FRICTION  
 KINETIC FRICTION  
 MEASUREMENT  
 STATIC FRICTION  
 FRICTION PRESSURE DROP  
 USE SKIN FRICTION  
 FRICTION REDUCTION  
 1503 1703 1805  
 RT ANTI-FRICTION BEARINGS  
 COEFFICIENT OF FRICTION  
 LUBRICATION  
 REDUCTION  
 STREAMLINING  
 FRICTIONLESS ENVIRONMENTS  
 0102 1203 2308  
 BT #ENVIRONMENTS  
 RT DEEP SPACE  
 LEVITATION  
 FRIEDEL-CRAFT REACTION  
 0602 1808  
 BT #CHEMICAL REACTIONS  
 RT ACYLATION  
 ALKYLATION  
 FRIENDSHIP 7  
 3104 3107  
 BT #MANNED SPACECRAFT  
 MERCURY SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SOFT LANDING SPACECRAFT  
 #SPACE CAPSULES  
 RT MERCURY MA-6 FLIGHT  
 FRINGE PATTERNS  
 USE DIFFRACTION PATTERNS  
 FRIT  
 1801  
 RT CERAMICS  
 FUSION (MELTING)  
 GLAZES  
 VITREOUS MATERIALS

PROGS  
 0402  
 BT AMPHIBIA  
 #ANIMALS  
 POIKILOthermia  
 VERTEBRATES  
 FRONTAL AREAS (METEOROLOGY)  
 USE FRONTS (METEOROLOGY)  
 FRONTS  
 0710 1202 1204 1301 2001 2003  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FRONTS (METEOROLOGY)  
 SHOCK FRONTS  
 WAVE FRONTS  
 FRONTS (METEOROLOGY)  
 2003 3006  
 UF FRONTAL AREAS (METEOROLOGY)  
 WEATHER FRONTS  
 RT AIR MASSES  
 FRONTS  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 #STORMS  
 SYNOPTIC METEOROLOGY  
 THUNDERSTORMS  
 TORNADOES  
 PROST  
 0710 2003 3009 3304  
 RT DEW  
 FREEZING  
 #ICE  
 LOW TEMPERATURE  
 PROSTBITE  
 0405 0408  
 BT #INJURIES  
 RT COLD TOLERANCE  
 PROUDE NUMBER  
 1202 1902  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT #FLUID FLOW  
 #INERTIA  
 KINETIC ENERGY  
 #POTENTIAL ENERGY  
 REYNOLDS NUMBER  
 STROUHAL NUMBER  
 PROZEN EQUILIBRIUM FLOW  
 0102 1203  
 BT EQUILIBRIUM FLOW  
 #FLUID FLOW  
 GAS FLOW  
 RT SHIFTING EQUILIBRIUM FLOW  
 PROZEN FOODS  
 0505  
 RT FOOD  
 PRESERVING  
 REFRIGERATING  
 FRUITS  
 0404 0409  
 BT FARM CROPS  
 RT AGRICULTURE  
 BOTANY  
 FOOD  
 FRUSTRATION  
 0408 0410  
 RT EMOTIONAL FACTORS  
 EMOTIONS  
 HANDICAPS  
 INHIBITION  
 LETHARGY  
 #PSYCHOLOGICAL EFFECTS  
 #PSYCHOLOGY  
 FRUSTUMS  
 1902  
 RT #CONES  
 #GEOMETRY  
 PYRAMIDS  
 VOLUME  
 FUEL-AIR RATIO  
 2701 2702 2805 2808  
 BT #RATIOS  
 BURNING RATE  
 COMBUSTION EFFICIENCY  
 FUEL COMBUSTION  
 FUEL CONTROL  
 GAS MIXTURES  
 IGNITION LIMITS  
 FUEL CAPSULES  
 2203  
 RT CAPSULES

# FUEL ELEMENTS (NUCLEAR REACTORS)

NUCLEAR FUELS  
 PELLETS  
 FUEL CELL CATALYSTS  
 USE ELECTROCATALYSTS  
 FUEL CELLS  
 0302 0303  
 (EXCLUDES BATTERIES)  
 NT BIOCHEMICAL FUEL CELLS  
 HYDROGEN-OXYGEN FUEL CELLS  
 REGENERATIVE FUEL CELLS  
 BT DIRECT POWER GENERATORS  
 #ELECTRIC GENERATORS  
 #ELECTROCHEMICAL CELLS  
 RT CELLS  
 CHEMICAL AUXILIARY POWER UNITS  
 ELECTRIC CELLS  
 ELECTROCATALYSTS  
 #ELECTROCHEMISTRY  
 ELECTROLYTES  
 ENERGY CONVERSION EFFICIENCY  
 ENERGY STORAGE  
 HYDROGEN FUELS  
 ION EXCHANGE MEMBRANE ELECTROLYTES  
 MAGNETOHYDRODYNAMIC GENERATORS  
 SOLAR CELLS  
 SOLAR GENERATORS  
 THERMIONIC CONVERTERS  
 THERMOELECTRIC GENERATORS  
 WET CELLS  
 FUEL COMBUSTION  
 2701 2702 2801 2805 2808  
 BT #COMBUSTION  
 RT COMBUSTION EFFICIENCY  
 COMBUSTION STABILITY  
 FUEL-AIR RATIO  
 HYDROCARBON COMBUSTION  
 HYPERSONIC COMBUSTION  
 IGNITION  
 METAL COMBUSTION  
 OXIDATION  
 PROPELLANT COMBUSTION  
 SPONTANEOUS COMBUSTION  
 SUPERSONIC COMBUSTION  
 FUEL CONSUMPTION  
 2701 2702 2801 2805 2808  
 UF FUEL ECONOMY  
 BT CONSUMPTION  
 RT BURNING RATE  
 COMBUSTION EFFICIENCY  
 ENERGY REQUIREMENTS  
 #ENGINES  
 FUEL FLOW  
 FUEL VALVES  
 INTERNAL COMBUSTION ENGINES  
 REFUELING  
 FUEL CONTAMINATION  
 0601 1702 2701 2702  
 BT CONTAMINATION  
 RT ANTICIPATING ADDITIVES  
 CONTAMINANTS  
 FUEL CORROSION  
 FUEL TANKS  
 REFUELING  
 FUEL CONTROL  
 2701 2702  
 RT AIRCRAFT FUEL SYSTEMS  
 COMBUSTION CONTROL  
 CONTROL  
 ENGINE CONTROL  
 FUEL-AIR RATIO  
 FUEL FLOW  
 FUEL FLOW REGULATORS  
 FUEL INJECTION  
 FUEL SYSTEMS  
 FUEL TANK PRESSURIZATION  
 FUEL VALVES  
 LIQUID SLOSHING  
 PROPELLANT TRANSFER  
 REFUELING  
 ROCKET ENGINE CONTROL  
 TURBOJET ENGINE CONTROL  
 FUEL CORROSION  
 1702 2701 2702  
 BT CORROSION  
 RT FUEL CONTAMINATION  
 PROPELLANT DECOMPOSITION  
 PROPELLANT STORABILITY  
 FUEL ECONOMY  
 USE FUEL CONSUMPTION  
 FUEL ELEMENTS (NUCLEAR REACTORS)  
 USE NUCLEAR FUEL ELEMENTS

# FUEL FLOW

## FUEL FLOW

2701 2702 2801 2808  
 BT PROPELLANT TRANSFER  
 BT #FLUID FLOW  
 BT COMBUSTIBLE FLOW  
 DUCTED FLOW  
 FUEL CONSUMPTION  
 FUEL CONTROL  
 FUEL SYSTEMS  
 FUEL TANK PRESSURIZATION  
 FUEL VALVES  
 FUEL FLOW REGULATORS  
 1003 1202 1501 1504  
 BT FLOW REGULATORS  
 #REGULATORS  
 BT FUEL CONTROL  
 FUEL GAGES  
 1402 1406 1408 1410  
 NT CAPACITIVE FUEL GAGES  
 BT #MEASURING INSTRUMENTS  
 RT FLOWMETERS  
 FUEL SYSTEMS  
 FUEL TANKS  
 FUEL INJECTION  
 2801 2804 2808 2809  
 UP INJECTION CARBURETORS  
 BT #INJECTION  
 RT BURNERS  
 CARBURETORS  
 FLUID INJECTION  
 FUEL CONTROL  
 FUEL PUMPS  
 FUEL SPRAYS  
 FUEL SYSTEMS  
 GAS INJECTION  
 INJECTORS  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 JET MIXING FLOW  
 JET NOZZLES  
 LIQUID INJECTION  
 PISTON ENGINES  
 PROPELLANT SPRAYS  
 SPRAY NOZZLES  
 FUEL OILS  
 2801 2804 2805 2808  
 BT #FUELS  
 OILS  
 RT FUEL TANKS  
 KEROSENE  
 FUEL PUMPS  
 1501 2701 2702 2801 2804 2808  
 BT #PUMPS  
 RT AIRCRAFT FUEL SYSTEMS  
 AXIAL FLOW PUMPS  
 CENTRIFUGAL PUMPS  
 ELECTROMAGNETIC PUMPS  
 FUEL INJECTION  
 FUEL SYSTEMS  
 FUEL TANK PRESSURIZATION  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 JET PUMPS  
 MATERIALS HANDLING  
 TURBINE PUMPS  
 FUEL SPRAYS  
 2701 2702 2804 2805  
 RT FUEL INJECTION  
 LIQUID INJECTION  
 PROPELLANT SPRAYS  
 SPRAYERS  
 FUEL SYSTEMS  
 2701 2702 2804 2805 2808 2809  
 NT AIRCRAFT FUEL SYSTEMS  
 RT #ACCUMULATORS  
 AUTOMOBILES  
 BUNKERS (FUEL)  
 CARBURETORS  
 CHOKES (FUEL SYSTEMS)  
 #ENGINES  
 FEEDERS  
 FUEL CONTROL  
 FUEL FLOW  
 FUEL GAGES  
 FUEL INJECTION  
 FUEL PUMPS  
 FUEL TANK PRESSURIZATION  
 FUEL TANKS  
 FUEL VALVES  
 #FUELS  
 INJECTORS  
 #INTAKE SYSTEMS

INTERNAL COMBUSTION ENGINES  
 MANIFOLDS  
 PLENUM CHAMBERS  
 PROPELLANT TRANSFER  
 REFUELING  
 SELF SEALING  
 SPRAY NOZZLES  
 SYSTEMS  
 FUEL TANK PRESSURIZATION  
 0202 2701 2702 2804  
 BT PRESSURIZING  
 RT AIRCRAFT FUEL SYSTEMS  
 EXHAUST SYSTEMS  
 EXPULSION BLADDERS  
 FUEL CONTROL  
 FUEL FLOW  
 FUEL PUMPS  
 FUEL SYSTEMS  
 FUEL TANKS  
 FUEL VALVES  
 LIQUID ROCKET PROPELLANTS  
 PRESSURE REGULATORS  
 PRESSURE VESSELS  
 PROPELLANT STORAGE  
 PROPELLANT TANKS  
 #PROPULSION  
 RELIEF VALVES  
 ULLAGE  
 VAPOR PRESSURE  
 FUEL TANKS  
 0202 2701 2702 2804  
 NT WING TANKS  
 BT #TANKS (CONTAINERS)  
 RT AIRCRAFT FUEL SYSTEMS  
 CONTAINERS  
 CORROSION PREVENTION  
 CRYOGENIC FLUID STORAGE  
 CYLINDRICAL TANKS  
 EXPULSION BLADDERS  
 FEED SYSTEMS  
 FUEL CONTAMINATION  
 FUEL GAGES  
 FUEL OILS  
 FUEL SYSTEMS  
 FUEL TANK PRESSURIZATION  
 #FUELS  
 #HEATING EQUIPMENT  
 LIQUID SLOSHING  
 PODS (EXTERNAL STORES)  
 PRESSURE VESSELS  
 PROPELLANT STORAGE  
 PROPELLANT TANKS  
 #PROPELLANTS  
 #PROPULSION  
 PROTUBERANCES  
 SPACECRAFT STRUCTURES  
 SPHERICAL TANKS  
 STORAGE TANKS  
 TANKER AIRCRAFT  
 ULLAGE  
 FUEL TESTS  
 2203 2701 2702  
 NT REACTOR STARTUP TESTS  
 RT CHEMICAL ANALYSIS  
 CORROSION TESTS  
 ENGINE TESTS  
 MATERIALS TESTS  
 MISSILE TESTS  
 PROPELLANT TESTS  
 STABILITY TESTS  
 TEST FIRING  
 TESTS  
 FUEL VALVES  
 0202 2701 2702  
 BT #VALVES  
 RT AIRCRAFT FUEL SYSTEMS  
 FUEL CONSUMPTION  
 FUEL CONTROL  
 FUEL FLOW  
 FUEL SYSTEMS  
 FUEL TANK PRESSURIZATION  
 GAS VALVES  
 RELIEF VALVES  
 FUELING  
 USE REFUELING  
 #FUELS  
 2701 2702 2801  
 RT AEROZINE  
 AIRCRAFT FUELS  
 CERAMIC NUCLEAR FUELS  
 CHEMICAL FUELS  
 CRYOGENIC ROCKET PROPELLANTS

# BASA THESAURUS (ALPHABETICAL LISTING)

DOUBLE BASE ROCKET PROPELLANTS  
 ENDOTHERMIC FUELS  
 FISSION  
 FUEL OILS  
 GASOLINE  
 GELLED ROCKET PROPELLANTS  
 HIGH ENERGY FUELS  
 HYDROCARBON FUELS  
 HYDROGEN FUELS  
 HYPERGOLIC ROCKET PROPELLANTS  
 JET ENGINE FUELS  
 JP-4 JET FUEL  
 JP-5 JET FUEL  
 JP-6 JET FUEL  
 JP-8 JET FUEL  
 LIQUID ROCKET PROPELLANTS  
 METAL FUELS  
 METAL PROPELLANTS  
 MONOPROPELLANTS  
 NUCLEAR FUELS  
 RP-1 ROCKET PROPELLANTS  
 SLURRY PROPELLANTS  
 SOLID ROCKET PROPELLANTS  
 RT BURNING RATE  
 CHARCOAL  
 COAL  
 COKE  
 DOUBLE BASE PROPELLANTS  
 ENERGY STORAGE  
 FLAMES  
 FUEL SYSTEMS  
 FUEL TANKS  
 #GASES  
 HYDROGEN  
 JP-5 JET FUEL  
 KEROSENE  
 LIQUID AMMONIA  
 LIQUID HYDROGEN  
 NUCLEAR FUEL ELEMENTS  
 OILS  
 #OXIDIZERS  
 #PROPELLANTS  
 ROCKET PROPELLANTS  
 FUJITA METHOD  
 1902  
 RT #COORDINATES  
 METHODOLOGY  
 TRANSFORMATIONS  
 TRANSFORMATIONS (MATHEMATICS)  
 FULL SCALE FATIGUE TESTS  
 USE FATIGUE TESTS  
 FULL SCALE TESTS  
 FULL SCALE TESTS  
 0102 0104 0203 1505  
 UP FULL SCALE FATIGUE TESTS  
 RT ALTITUDE TESTS  
 ENGINE TESTS  
 FLIGHT TESTS  
 #GROUND TESTS  
 HIGH ALTITUDE TESTS  
 TESTS  
 FULMINATES  
 0403 1808 3302  
 BT CYANO COMPOUNDS  
 #ESTERS  
 ISOCYANATES  
 #NITROGEN COMPOUNDS  
 RT DETONATORS  
 EXPLOSIVES  
 #PROPELLANTS  
 FUMES  
 0404 1808  
 RT AEROSOLS  
 DISPERSIONS  
 #DUST  
 EXHAUST GASES  
 GAS MIXTURES  
 #GASES  
 SMOKE  
 #VAPORS  
 #WASTES  
 FUMIGATION  
 0504 0602  
 RT ANTISEPTICS  
 BACTERICIDES  
 SPRAYING  
 STERILIZATION  
 FUNCTION GENERATORS  
 0802 1902  
 BT SIGNAL GENERATORS  
 RT GENERATORS  
 PULSE GENERATORS

# NASA TREASURY (ALPHABETICAL LISTING)

VOLTAGE GENERATORS  
WAVE GENERATION  
FUNCTION SPACE  
1902  
NT BANACH SPACE  
HILBERT SPACE  
BT #ANALYSIS (MATHEMATICS)  
RT FIBERS (MATHEMATICS)  
FIELD THEORY (PHYSICS)  
#FUNCTIONS (MATHEMATICS)  
ORTHOGONAL FUNCTIONS  
QUANTUM MECHANICS  
SERIES (MATHEMATICS)  
SPACE  
STATISTICAL MECHANICS  
VECTORS (MATHEMATICS)  
FUNCTION TESTS  
USE TESTS  
FUNCTIONAL ANALYSIS  
1902  
NT BANACH SPACE  
CONVOLUTION INTEGRALS  
FOURIER TRANSFORMATION  
FREDHOLM EQUATIONS  
HARMONIC ANALYSIS  
HILBERT SPACE  
HILBERT TRANSFORMATION  
INTEGRAL EQUATIONS  
INTEGRAL TRANSFORMATIONS  
LAPLACE TRANSFORMATION  
SINGULAR INTEGRAL EQUATIONS  
TESSERAL HARMONICS  
VOLTERRA EQUATIONS  
WIENER HOPF EQUATIONS  
ZONAL HARMONICS  
BT #ANALYSIS (MATHEMATICS)  
RT COMPLEX VARIABLES  
FORM FACTORS  
#FUNCTIONS (MATHEMATICS)  
SERIES (MATHEMATICS)  
WALSH FUNCTION  
FUNCTIONAL INTEGRATION  
1902  
BT #ANALYSIS (MATHEMATICS)  
MEASURE AND INTEGRATION  
REAL VARIABLES  
RT ANALOG COMPUTERS  
DIFFERENTIAL EQUATIONS  
DIGITAL INTEGRATORS  
PARTIAL DIFFERENTIAL EQUATIONS  
FUNCTIONS  
1902 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONTRALATERAL FUNCTIONS  
#FUNCTIONS (MATHEMATICS)  
MUSCULAR FUNCTION  
PARENTAL FUNCTIONS  
PULMONARY FUNCTIONS  
RENAL FUNCTION  
SCATTERING FUNCTIONS  
WORK FUNCTIONS  
#FUNCTIONS (MATHEMATICS)  
1902  
NT ABEL FUNCTION  
AIRY FUNCTION  
ANALYTIC FUNCTIONS  
APERIODIC FUNCTIONS  
ASYMPTOTES  
BOOLEAN FUNCTIONS  
COMPOSITE FUNCTIONS  
CONFORMAL MAPPING  
COORDINATE TRANSFORMATIONS  
COSINE SERIES  
DELTA FUNCTION  
DISCRETE FUNCTIONS  
DISTRIBUTION FUNCTIONS  
DISTURBING FUNCTIONS  
ELLIPTIC FUNCTIONS  
ENTIRE FUNCTIONS  
ERROR FUNCTIONS  
EXPONENTIAL FUNCTIONS  
FOURIER-BESSEL TRANSFORMATION  
FOURIER-BESSEL TRANSFORMATION'S  
FOURIER TRANSFORMATION  
FRESNEL INTEGRALS  
GAMMA FUNCTION  
GREEN FUNCTION  
HAMILTONIAN FUNCTIONS  
HANKEL FUNCTIONS  
HARMONIC FUNCTIONS

HYPERBOLIC FUNCTIONS  
HYPERGEOMETRIC FUNCTIONS  
KERNEL FUNCTIONS  
LAGUERRE FUNCTIONS  
LAME FUNCTIONS  
LAPLACE TRANSFORMATION  
LEGENDRE FUNCTIONS  
LIAPUNOV FUNCTIONS  
LINEAR TRANSFORMATIONS  
LOGARITHMS  
LORENTZ TRANSFORMATIONS  
MATHIEU FUNCTION  
MAXWELL-BOLTZMANN DENSITY FUNCTION  
MELLIN TRANSFORMS  
MEROMORPHIC FUNCTIONS  
MONOTONE FUNCTIONS  
NORMAL DENSITY FUNCTIONS  
ORTHOGONAL FUNCTIONS  
ORTHONORMAL FUNCTIONS  
PEARSON DISTRIBUTIONS  
PERIODIC FUNCTIONS  
POISSON DENSITY FUNCTIONS  
PROBABILITY DENSITY FUNCTIONS  
PROBABILITY DISTRIBUTION FUNCTIONS  
RAMP FUNCTIONS  
RATIONAL FUNCTIONS  
RAYLEIGH DISTRIBUTION  
RECURSIVE FUNCTIONS  
SCHWARZ-CHRISTOPPEL TRANSFORMATION  
SINE SERIES  
SPACE-TIME FUNCTIONS  
SPHERICAL HARMONICS  
SPINE FUNCTIONS  
STEP FUNCTIONS  
STRESS FUNCTIONS  
TANGENTS  
TIME FUNCTIONS  
TRANSCENDENTAL FUNCTIONS  
TRIGONOMETRIC FUNCTIONS  
WALSH FUNCTION  
WEIBULL DENSITY FUNCTIONS  
WEIGHTING FUNCTIONS  
WHITTAKER FUNCTIONS  
BT #ALGEBRA  
APPLICATIONS OF MATHEMATICS  
BRANCHING (MATHEMATICS)  
CALCULUS  
CONTINUITY (MATHEMATICS)  
DIVERGENCE  
EXTREMUM VALUES  
FUNCTION SPACE  
FUNCTIONAL ANALYSIS  
FUNCTIONS  
INFINITY  
INFLECTION POINTS  
LINEARITY  
MAPPING  
#MATHEMATICAL LOGIC  
MATHEMATICAL MODELS  
MATHEMATICS  
NONLINEARITY  
#NUMBER THEORY  
OPERATIONS RESEARCH  
OPERATORS (MATHEMATICS)  
RANDOM VARIABLES  
#RANGE (EXTREMES)  
TRANSFORMATIONS  
TRANSFORMATIONS (MATHEMATICS)  
FUNGICIDES  
0404 0407 0409  
NT ACTINOMYCETES  
ASPERGILLUS  
COCCIDYCES  
GIBBERELLINS  
MICROSPORES  
NEUROSPORA  
RHIZOPUS  
SACCHAROMYCETES  
SPORES  
STREPTOMYCETES  
YEAST  
BT #PLANTS (BOTANY)  
RT LICHENS  
MITRA  
MOLD  
PARASITIC DISEASES  
THERMOPHILES  
#FUNGICIDES  
0403 0409 0412  
NT CAFFEINE  
GUANINES  
URIC ACID

# FUSES (ORDNANCE)

IANTHINES  
BT ANTIINFECTIVES AND ANTIBACTERIALS  
TOXICOLOGY  
FUNNELS  
1106 1108  
RT CONICAL INLETS  
NOZZLES  
FURAN RESINS  
0403 1808  
BT POLYAMIDE RESINS  
#PLASTICS  
#RESINS  
SYNTHETIC RESINS  
THERMOSETTING RESINS  
RT ADHESIVES  
#COATINGS  
PURFURYL ALCOHOL  
0603  
RT ALDERHYDES  
AROMATIC COMPOUNDS  
FURABLE ANTENNAS  
0701 0901  
BT ANTENNAS  
RT #COMMUNICATION EQUIPMENT  
FOLDING STRUCTURES  
SATELLITE ANTENNAS  
SPACE COMMUNICATION  
SPACECRAFT ANTENNAS  
FURNACES  
0301 0906 2205 3303 3304  
(EXCLUDES DOMESTIC HEATING EQUIPMENT)  
NT IMAGE FURNACES  
SOLAR FURNACES  
VACUUM FURNACES  
BT #HEATING EQUIPMENT  
BOILERS  
BURNERS  
CHEMICAL ENGINEERING  
CHEMICAL REACTORS  
CHIMNEYS  
COMBUSTION CHAMBERS  
#CONTROLLED ATMOSPHERES  
CUPOLAS  
DRYING APPARATUS  
EXTRACTION  
FLUIDIZED BED PROCESSOR  
FOUNDRIES  
HEARTHES  
#HEAT TREATMENT  
INCINERATORS  
INDUCTION HEATING  
MECHANICAL ENGINEERING  
MELTING  
METALLURGY  
MUFFLERS  
OVENS  
REFRATORIES  
#SEPARATORS  
SINTERING  
FUSELAGE MOUNTING  
USE AIRCRAFT PRODUCTION  
FUSELAGES  
0102 0202  
BT AIRCRAFT STRUCTURES  
RT AIRCRAFT PARTS  
AIRFRAMES  
BAYS (STRUCTURAL UNITS)  
BODY-WING AND TAIL CONFIGURATIONS  
CAMBER  
CENTERBODIES  
COCKPITS  
CYLINDRICAL BODIES  
HULLS (STRUCTURES)  
WING-FUSELAGE STORES  
FUSES  
0903 3302  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CIRCUIT BREAKERS  
CIRCUIT PROTECTION  
ELECTRIC FUSES  
FUSES (ORDNANCE)  
WARHEADS  
FUSES (ORDNANCE)  
3302  
RT AMMUNITION  
CAPS (EXPLOSIVES)  
DETONATORS  
FUSES  
INITIATORS (EXPLOSIVES)  
WARHEADS

FUSIBILITY

NASA THESAURUS (ALPHABETICAL LISTING)

WICKS  
 FUSIBILITY  
 3304 3404 3408  
 BT #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT PHYSICAL PROPERTIES  
 RESISTANCE  
 #WELDING  
 FUSIFORM SHAPES  
 USE #CONES  
 FUSION  
 1504 1704 2405 2502 3304 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FUSION (MELTING)  
 LIQUID-SOLID INTERFACES  
 NUCLEAR FUSION  
 FUSION (MELTING)  
 1504 1704  
 BT MELTING  
 #PHASE TRANSFORMATIONS  
 RT ADHESION  
 FRIT  
 FUSION  
 FUSION WELDING  
 JOINING  
 FUSION WEAPONS  
 2205  
 UP HYDROGEN BOMBS  
 BT #WEAPONS  
 FUSION WELDING  
 1507  
 NT ARC WELDING  
 BRAZING  
 ELECTRON BEAM WELDING  
 ELECTROSLAG WELDING  
 GAS TUNGSTEN ARC WELDING  
 GAS WELDING  
 LOW TEMPERATURE BRAZING  
 PLASMA ARC WELDING  
 ULTRASONIC SOLDERING  
 BT #WELDING  
 RT ELECTRIC WELDING  
 FLASH WELDING  
 FUSION (MELTING)  
 PRESSURE WELDING  
 SPOT WELDS  
 F4H AIRCRAFT  
 USE F-4 AIRCRAFT  
 F8U AIRCRAFT  
 USE F-8 AIRCRAFT  
 F9F AIRCRAFT  
 USE F-9 AIRCRAFT

# G

G-95/4 AIRCRAFT  
0207 0209  
UF FIAT G-95/4 AIRCRAFT  
BT FIAT AIRCRAFT  
#JET AIRCRAFT  
#MONOPLANES  
OBSERVATION AIRCRAFT  
#SUPERSONIC AIRCRAFT  
#V/STOL AIRCRAFT

G-1 AIRCRAFT  
0201 0204  
UF NAVION G-1 AIRCRAFT  
NAVION RANGEMASTER AIRCRAFT  
RANGEMASTER AIRCRAFT  
BT GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
NAVION AIRCRAFT  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT

G-91 AIRCRAFT  
0207 3401  
UF FIAT G-91 AIRCRAFT  
BT FIAT AIRCRAFT  
#JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
TRAINING AIRCRAFT

G-222 AIRCRAFT  
0207  
UF FIAT G-222 AIRCRAFT  
BT FIAT AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
#V/STOL AIRCRAFT

G FORCE  
USE ACCELERATION (PHYSICS)

GA-5 AIRCRAFT  
0207  
UF GLOSTER GA-5 AIRCRAFT  
JAVELIN AIRCRAFT  
BT HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
BT DELTA WINGS

GADOLINIUM  
1703 1704  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS

GAGES  
USE #MEASURING INSTRUMENTS

GAIN (AMPLIFICATION)  
USE AMPLIFICATION

GALACTIC EVOLUTION  
3001 3002 3003  
BT #EVOLUTION (DEVELOPMENT)  
BT ASTROPHYSICS  
COSMOLOGY  
STAR DISTRIBUTION  
STELLAR EVOLUTION

GALACTIC MAGNETIC FIELDS  
USE INTERSTELLAR MAGNETIC FIELDS

GALACTIC RADIATION  
0702 0704 2903 3002  
BT GALACTIC RADIO WAVES  
BT #EXTRATERRESTRIAL RADIATION  
BT CORPUSCULAR RADIATION  
COSMIC NOISE  
COSMIC RAYS  
#ELECTROMAGNETIC RADIATION  
INTERSTELLAR RADIATION  
RADIATIVE TRANSFER  
SOLAR RADIATION 1 SATELLITE  
SOLAR RADIATION 3 SATELLITE  
STELLAR RADIATION

GALACTIC RADIATION EXP BACKGROUND SATS  
USE GREB SATELLITES

GALACTIC RADIO WAVES  
0704 2903 3001 3002  
BT #ELECTROMAGNETIC RADIATION  
#EXTRATERRESTRIAL RADIATION  
EXTRATERRESTRIAL RADIO WAVES  
GALACTIC RADIATION  
RADIO WAVES

BT COSMIC NOISE

GALACTOKINASE  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
ENZYMES

BT DIGITALIS

GALACTOSE  
1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
SUGARS

GALAXIES  
3001 3009  
BT ANDROMEDA GALAXIES  
MILKY WAY GALAXY  
RADIO GALAXIES  
SPIRAL GALAXIES  
BT #CELESTIAL BODIES  
BT NEBULAE  
QUASARS  
RADIO SOURCES (ASTRONOMY)  
RED SHIFT  
STAR CLUSTERS  
STARS

GALAXY AIRCRAFT  
USE C-5 AIRCRAFT

GALERKIN METHOD  
1902  
BT LINEARIZATION  
METHODOLOGY

GALL  
0404  
BT #DIGESTIVE SYSTEM  
GASTROINTESTINAL SYSTEM  
#SECRETIONS

GALLAMINE TRIETHIODIDE  
0405 1808  
BT #AMINES  
ETHERS  
#HALOGEN COMPOUNDS  
IODIDES  
IODINE COMPOUNDS

GALLATES  
0603 1804  
BT SODIUM GALLATES  
BT #GALLIUM COMPOUNDS

GALLIUM  
1703  
BT GALLIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS

GALLIUM ALLOYS  
1701 1704 2604  
BT #ALLOYS

GALLIUM ANTIMONIDES  
1701 1704 1804 2602  
BT ANTIMONIDES  
#ANTIMONY COMPOUNDS  
#GALLIUM COMPOUNDS

GALLIUM ARSENIDE LASERS  
1601  
BT #ELECTRONIC EQUIPMENT  
LASERS  
SEMICONDUCTOR DEVICES  
SEMICONDUCTOR LASERS  
SOLID STATE DEVICES  
#STIMULATED EMISSION DEVICES

BT INJECTION LASERS  
STIMULATED EMISSION

GALLIUM ARSENIDES  
1601 1703 1804 2602  
BT #ARSENIC COMPOUNDS  
ARSENIDES  
#GALLIUM COMPOUNDS

BT INJECTION LASERS  
NEGATIVE CONDUCTANCE  
NEGATIVE RESISTANCE DEVICES  
SEMICONDUCTOR LASERS

#GALLIUM COMPOUNDS  
1704 1804  
BT GALLATES  
GALLIUM ANTIMONIDES  
GALLIUM ARSENIDES  
GALLIUM PHOSPHIDES  
GALLIUM SELENIDES  
SODIUM GALLATES  
BT CHEMICAL COMPOUNDS  
GROUP 3A COMPOUNDS  
METAL COMPOUNDS

GALLIUM ISOTOPES  
0603 1703 2406

BT #CHEMICAL ELEMENTS  
GALLIUM  
ISOTOPES  
NUCLIDES

GALLIUM PHOSPHIDES  
1704 1804  
BT #GALLIUM COMPOUNDS  
PHOSPHIDES  
#PHOSPHORUS COMPOUNDS

GALLIUM SELENIDES  
1704 1804  
BT #CHALCOGENIDES  
#GALLIUM COMPOUNDS  
SELENIDES  
#SELENIUM COMPOUNDS

GALVANIC CELLS  
USE ELECTROLYTIC CELLS

GALVANIC SKIN RESPONSE  
0404 0408  
UF ELECTRODERMAL RESPONSE  
BT #RESPONSES

GALVANIZING  
USE ZINC COATINGS

GALVANOMAGNETIC EFFECTS  
2304 2307 2602  
UF GALVANOMAGNETISM  
BT NERNST-ETTINGSHAUSEN EFFECT  
BT EFFECTS  
HALL EFFECT

GALVANOMAGNETISM  
USE GALVANOMAGNETIC EFFECTS

GALVANOMETERS  
1406 2304  
BT #MEASURING INSTRUMENTS  
RT AMMETERS  
ELECTROMETERS  
MICROMILLIAMMETERS  
MILLIVOLTMETERS  
THERMOCOUPLE PYROMETERS

GAME THEORY  
1902 3404 3405  
BT MINIMAX TECHNIQUE  
SADDLE POINTS (GAME THEORY)  
BT OPERATIONS RESEARCH  
#RESEARCH  
BT DECISION THEORY  
DEPLOYMENT  
INFORMATION THEORY  
LINEAR PROGRAMMING  
MATHEMATICAL MODELS  
MONTE CARLO METHOD  
PROBABILITY THEORY  
RISK  
#SIMULATION  
#STATISTICAL ANALYSIS  
STATISTICAL DECISION THEORY  
#STOCHASTIC PROCESSES  
STRATEGY  
THEORIES  
WAR GAMES

GAMETOCYTES  
0404  
UF OOCYTES  
SPERMATOCYTES  
BT #CELLS (BIOLOGY)  
BT SPERMATOGENESIS

GAMMA FUNCTION  
1902  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
BT FACTORIALS  
STATISTICAL DISTRIBUTIONS

GAMMA GLOBULIN  
0403 0405 1808  
BT ANTIBODIES  
GLOBULINS  
#PROTEINS

GAMMA RADIATION  
USE GAMMA RAYS

GAMMA RAY ASTRONOMY EXPLORER  
USE EXPLORER 11 SATELLITE

GAMMA RAY BEAMS  
2401 2403 2405  
BT #BEAMS (RADIATION)  
#ELECTROMAGNETIC RADIATION  
#IONIZING RADIATION  
NUCLEAR RADIATION  
BT PHOTON BEAMS  
RADIOACTIVE DECAY

GAMMA RAYS  
2402 2405

# GANGLIA

(EMITTED BY NUCLEI)  
 UP GAMMA RADIATION  
 BT #ELECTROMAGNETIC RADIATION  
 #IONIZING RADIATION  
 RT NUCLEAR RADIATION  
 BREMSSTRAHLUNG  
 CERENKOV RADIATION  
 COSMIC RAYS  
 EMISSION SPECTRA  
 FLUX (RATE)  
 FLUX DENSITY  
 MONOCHROMATIC RADIATION  
 MOSSBAUER EFFECT  
 PHOTOMAGNETIC EFFECTS  
 PHOTONS  
 RADIATION EFFECTS  
 RADIATION SHIELDING  
 RADIOACTIVE DECAY  
 RADIOACTIVITY  
 RAYS  
 TRANSVERSE OSCILLATION  
 TRANSVERSE WAVES  
 X RAYS

GANGLIA  
 0403 0404 0405 0406  
 NT NERVES  
 NEURONS  
 BT #NERVOUS SYSTEM  
 RT #CELLS (BIOLOGY)  
 NEUROPHYSIOLOGY

GANTRIES  
 USE GANTRY CRANES  
 GANTRY CRANES  
 1504  
 UP GANTRIES  
 BT CRANES  
 RT #HANDLING EQUIPMENT  
 GROUND SUPPORT EQUIPMENT  
 LAUNCHING PADS  
 LAUNCHING SITES  
 UNBILICAL TOWERS

GAPS  
 0904 2304  
 NT SPARK GAPS  
 RT ARRESTERS  
 BREAKDOWN  
 HOLES  
 #OPENINGS  
 ORIFICES  
 PASSAGEWAYS  
 TUNNELS

GARBAGE  
 0505  
 BT #WASTES  
 RT WASTE DISPOSAL

GARMENTS  
 0508  
 BT #CLOTHING  
 RT FLIGHT CLOTHING  
 SUITS

GARNETS  
 1804 2305 2309  
 NT YTTRIUM-ALUMINUM GARNET  
 YTTRIUM-IRON GARNET  
 BT #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 RT ECLOGITE  
 LASERS

GAS ANALYSIS  
 0601 0604 1406 1411  
 NT OZONOMETRY  
 VAN SLYKE METHOD  
 BT CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 RT AIR SAMPLING  
 FLAME PROBES  
 GAS CHROMATOGRAPHY  
 GAS COMPOSITION  
 GAS DETECTORS  
 HOPCALITE (TRADEMARK)  
 MASS SPECTROMETERS  
 MATERIALS TESTS  
 OXYGEN ANALYZERS  
 QUALITATIVE ANALYSIS  
 QUANTITATIVE ANALYSIS  
 VOLUMETRIC ANALYSIS

GAS BAGS  
 0205 1103 1203 3202  
 BT BAGS  
 #EXPANDABLE STRUCTURES  
 INFLATABLE STRUCTURES

RT BALLOONS  
 HIGH ALTITUDE BALLOONS  
 GAS BEARINGS  
 1501 1503 2311  
 UP AIR BEARINGS  
 GAS LUBRICATED BEARINGS  
 BT #BEARINGS  
 RT ANTIFRICTION BEARINGS  
 FLUID FILMS  
 GAS LUBRICANTS  
 HIGH TEMPERATURE LUBRICANTS  
 THRUST BEARINGS  
 TURBINE ENGINES

GAS CHROMATOGRAPHY  
 0401 0601  
 RT ADSORPTION  
 CHEMICAL ANALYSIS  
 GAS ANALYSIS  
 PAPER CHROMATOGRAPHY  
 #SORPTION  
 THIN LAYER CHROMATOGRAPHY

GAS COMPOSITION  
 0601 1411  
 NT CARBON DIOXIDE CONCENTRATION  
 BT #COMPOSITION (PROPERTY)  
 RT ATMOSPHERIC COMPOSITION  
 ATOM CONCENTRATION  
 CHEMICAL COMPOSITION  
 DALTON LAW  
 EXPIRED AIR  
 GAS ANALYSIS  
 GAS DENSITY  
 IONOSPHERIC COMPOSITION  
 PLASMA COMPOSITION  
 POLAR GASES

GAS COOLED REACTORS  
 2202 2204 2405  
 UP GCR (REACTORS)  
 NT EXPERIMENTAL GAS COOLED REACTORS  
 HIGH TEMPERATURE NUCLEAR REACTORS  
 KIWI B-1 REACTOR  
 KIWI B-4 REACTOR  
 KIWI B REACTORS  
 KIWI REACTORS  
 BT #NUCLEAR REACTORS  
 RT GAS COOLING  
 GAS REACTORS

GAS COOLING  
 1203 2203 3304  
 (COOLING WITH GAS)  
 BT #COOLING  
 RT COOLANTS  
 FREON (TRADEMARK)  
 GAS COOLED REACTORS  
 GAS HEATING  
 HEAT EXCHANGERS

GAS DENSITY  
 0603 1203 3304  
 BT DENSITY (MASS/VOLUME)  
 RT ATOM CONCENTRATION  
 BUOYANCY  
 CONVECTIVE FLOW  
 GAS COMPOSITION  
 GAS DYNAMICS  
 GAS TRANSPORT  
 GASEOUS DIFFUSION  
 IDEAL GAS  
 PROBABILITY DENSITY FUNCTIONS  
 RAREFIED GASES  
 REAL GASES

GAS DETECTORS  
 0601 0602 0603 1405 1406 1409 1411  
 RT #DETECTION  
 DETECTORS  
 GAS ANALYSIS  
 IDENTIFYING  
 INDICATING INSTRUMENTS  
 MONITORS  
 PROBES  
 SENSORS  
 #WARNING SYSTEMS

GAS DISCHARGE COUNTERS  
 USE COUNTERS  
 GAS DISCHARGE TUBES  
 0603 1406 1804 2304  
 UP DISCHARGE TUBES  
 GAS DISCHARGE COUNTERS  
 BT MICROWAVE OSCILLATORS  
 RT PARADAY DARK SPACE  
 GAS TUBES  
 PHOTOTUBES

# NASA TREASURUS (ALPHABETICAL LISTING)

RADIATION COUNTERS  
 GAS DISCHARGES  
 0603 1804 2304  
 RT RING DISCHARGE  
 TOROIDAL DISCHARGE  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 TOWNSEND DISCHARGE  
 RT AFTERGLOWS  
 COLD CATHODE TUBES  
 COLD CATHODES  
 ELECTRIC ARCS  
 ELECTRIC SPARKS  
 ELECTRODELESS DISCHARGES  
 ELECTRON AVALANCHE  
 GAS DISSOCIATION  
 GAS IONIZATION  
 GLOW DISCHARGES  
 LIGHTNING  
 POLAR GASES

GAS DISSOCIATION  
 0603 1203 1804  
 BT DISSOCIATION  
 RT GAS DISCHARGES  
 GAS IONIZATION  
 THERMAL DISSOCIATION

GAS DYNAMICS  
 0603 1203  
 NT AERODYNAMICS  
 AEROTHERMODYNAMICS  
 HYPERSONICS  
 RAREFIED GAS DYNAMICS  
 ROTOR AERODYNAMICS  
 SUPERSONICS  
 BT FLUID DYNAMICS  
 RT #FLUID MECHANICS  
 DALTON LAW  
 DYNAMICS  
 GAS DENSITY  
 GAS FLOW  
 GAS TEMPERATURE  
 GAS TRANSPORT  
 GASEOUS DIFFUSION  
 GASEOUS SELF-DIFFUSION

#GASES  
 HYDRODYNAMIC EQUATIONS  
 HYDRODYNAMICS  
 HYPERSONICS  
 KINETICS  
 LORENTZ GAS  
 MAGNETOHYDRODYNAMICS  
 MECHANICS (PHYSICS)  
 MOLECULAR GASES  
 POLAR GASES  
 SUPERSONICS  
 THERMODYNAMICS

GAS EVACUATING  
 USE EVACUATING (VACUUM)  
 GAS EVOLUTION  
 0603 1203  
 BT EVOLUTION (LIBERATION)  
 RT DEGASSING  
 GAS EXCHANGE  
 GAS FLOW  
 GAS GENERATORS  
 OUTGASSING  
 TRANSPIRATION

GAS EXCHANGE  
 0404 0603  
 BT #EXCHANGING  
 RT GAS EVOLUTION  
 GAS POCKETS  
 OXYGEN PRODUCTION

GAS EXPANSION  
 0603 1203 3304  
 UP NOZZLE EXPANSION  
 BT #EXPANSION  
 RT GAS PRESSURE  
 JOULE-THOMSON EFFECT  
 PRESSURE REDUCTION

GAS EXPLOSIONS  
 0603 3301 3302  
 BT CHEMICAL EXPLOSIONS  
 #EXPLOSIONS  
 RT DETONABLE GAS MIXTURES  
 DETONATION WAVES  
 FLAME PROPAGATION  
 FLAMMABLE GASES  
 UNDERGROUND EXPLOSIONS

GAS FLOW  
 1203  
 UP GASEOUS CAVITATION



# NASA THESAURUS (ALPHABETICAL LISTING)

NT AIR CURRENTS  
 AIR FLOW  
 CONTINUUM FLOW  
 EQUILIBRIUM FLOW  
 FREE MOLECULAR FLOW  
 FROZEN EQUILIBRIUM FLOW  
 JET STREAMS (METEOROLOGY)  
 KNUDSEN FLOW  
 MERIDIONAL FLOW  
 MOLECULAR FLOW  
 NONEQUILIBRIUM FLOW  
 SHIFTING EQUILIBRIUM FLOW  
 SLIP FLOW  
 TRANSITION FLOW  
 VERTICAL AIR CURRENTS  
 BT #FLUID FLOW  
 RT AIR DUCTS  
 AIR JETS  
 COMPRESSIBLE FLOW  
 CRITICAL FLOW  
 CROCCO-LEE THEORY  
 GAS DYNAMICS  
 GAS EVOLUTION  
 GAS STREAMS  
 GASEOUS DIFFUSION  
 #GASES  
 HYDRAULIC ANALOGIES  
 HYPERSONIC FLOW  
 INCOMPRESSIBLE FLOW  
 INVISCID FLOW  
 JOULE-THOMSON EFFECT  
 LAMINAR FLOW  
 LIQUID FLOW  
 MAGNETOHYDRODYNAMIC FLOW  
 MASS FLOW  
 MOLECULAR RELAXATION  
 MOLECULAR TRAJECTORIES  
 MULTIPHASE FLOW  
 NONUNIFORM FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE DROP  
 RADIAL FLOW  
 SINGLE-PHASE FLOW  
 STEADY FLOW  
 STEAM FLOW  
 STREAMS  
 SUBCRITICAL FLOW  
 SUBSONIC FLOW  
 SUPERCRITICAL FLOW  
 SUPersonic FLOW  
 SUPersonic JET FLOW  
 TRANSonic FLOW  
 TURBULENT FLOW  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 VAPOR JETS  
 VISCOUS FLOW  
 GAS-GAS INTERACTIONS  
 0602  
 RT DALTON LAW  
 DETONABLE GAS MIXTURES  
 GAS MIXTURES  
 GASEOUS DIFFUSION  
 INTERACTIONS  
 GAS GENERATOR ENGINES  
 USE #ENGINES  
 GAS GENERATORS  
 0303 0603 1203 2802  
 OF GAS GENERATOR ENGINES  
 RT CHEMICAL REACTORS  
 GAS EVOLUTION  
 GAS TURBINE ENGINES  
 GAS TURBINES  
 GENERATORS  
 PNEUMATIC EQUIPMENT  
 PRESSURIZING  
 VAPORIZERS  
 GAS GUNS  
 1203 2311 3303 3304  
 NT LIGHT GAS GUNS  
 RT #ATMOSPHERIC ENTRY  
 BALLISTICS  
 GUNS  
 HYPERVELOCITY GUNS  
 WIND TUNNELS  
 GAS HEATING  
 1203 2311 3303 3304  
 BT #HEATING  
 RT ARC HEATING

GAS COOLING  
 KINETIC HEATING  
 PLASMA HEATING  
 RADIANT HEATING  
 RESISTANCE HEATING  
 THERMAL DIFFUSION  
 GAS INJECTION  
 1203 2311 2808  
 BT FLUID INJECTION  
 #INJECTION  
 RT FORMATIONS  
 FUEL INJECTION  
 INFLATING  
 PERFORATING  
 POROSITY  
 PRESSURIZING  
 STIMULATION  
 WATER INJECTION  
 GAS-ION INTERACTIONS  
 0602 1804  
 OF ION-GAS INTERACTIONS  
 RT GAS IONIZATION  
 GASEOUS DIFFUSION  
 INTERACTIONS  
 GAS IONIZATION  
 0602 1203 1804 2502  
 NT ATMOSPHERIC IONIZATION  
 AURORAL IONIZATION  
 FLAME IONIZATION  
 BT #IONIZATION  
 RT AFTERGLOWS  
 ELECTRON ATTACHMENT  
 GAS DISCHARGES  
 GAS DISSOCIATION  
 GAS-ION INTERACTIONS  
 IONIZED GASES  
 IONIZERS  
 PENNING DISCHARGE  
 PENNING EFFECT  
 PHOTOIONIZATION  
 RING DISCHARGE  
 GAS JETS  
 1202 1203  
 BT FLUID JETS  
 RT AIR JETS  
 JETS  
 GAS LASERS  
 1203 1601 2311 3304  
 NT CARBON DIOXIDE LASERS  
 HELIUM-NEON LASERS  
 BT LASERS  
 #STIMULATED EMISSION DEVICES  
 RT CARBON MONOXIDE LASERS  
 CHEMICAL LASERS  
 GAS MASERS  
 INFRARED LASERS  
 MACH-ZEHNDER INTERFEROMETERS  
 MOLECULAR OSCILLATIONS  
 ORGANIC LASERS  
 POLAR GASES  
 PULSED LASERS  
 Q SWITCHED LASERS  
 STIMULATED EMISSION  
 GAS LIQUEFACTION  
 USE CONDENSING  
 GAS-LIQUID INTERACTIONS  
 0602 3303  
 RT CONDENSING  
 ENERGY TRANSFER  
 EVAPORATION  
 GASEOUS DIFFUSION  
 HEAT TRANSFER  
 INTERACTIONS  
 INTERFACIAL TENSION  
 MASS TRANSFER  
 MOMENTUM TRANSFER  
 NONCONDENSIBLE GASES  
 SURFACE REACTIONS  
 GAS LUBRICANTS  
 1203 1501 1503 2311 3304  
 BT LUBRICANTS  
 RT GAS BEARINGS  
 GAS VISCOSITY  
 GASEOUS DIFFUSION  
 HIGH TEMPERATURE LUBRICANTS  
 METAL-GAS SYSTEMS  
 SOLID LUBRICANTS  
 GAS LUBRICATED BEARINGS  
 USE GAS BEARINGS  
 GAS MASERS  
 1201 1203 1601 3304  
 BT MASERS

# GAS-SOLID INTERFACES

#STIMULATED EMISSION DEVICES  
 RT ARGON LASERS  
 ATOMIC CLOCKS  
 CARBON DIOXIDE LASERS  
 FREQUENCY STANDARDS  
 GAS LASERS  
 POLAR GASES  
 STIMULATED EMISSION  
 GAS-METAL INTERACTIONS  
 0602 1203 1702 1703 3303  
 RT ABLATION  
 ADSORPTION  
 #CHEMICAL REACTIONS  
 CHEMISORPTION  
 CONDENSATION  
 CONDENSING  
 CORROSION  
 #DIFFUSION  
 EVAPORATION  
 FLAME PROPAGATION  
 GAS-SOLID INTERFACES  
 GAS WELDING  
 GASEOUS DIFFUSION  
 INTERACTIONS  
 METAL COMBUSTION  
 METAL-GAS SYSTEMS  
 METAL VAPORS  
 OCCLUSION  
 SOLID PHASES  
 SUBLIMATION  
 VAPOR PHASES  
 GAS METERS  
 1203 1406 1408  
 BT FLOWMETERS  
 #MEASURING INSTRUMENTS  
 RT FLOW MEASUREMENT  
 GAS VALVES  
 VENTURI TUBES  
 GAS MIXTURES  
 0602 1203 2701 2702 3301  
 NT DETONABLE GAS MIXTURES  
 BT #GASES  
 #MIXTURES  
 SOLUTIONS  
 RT AIR  
 ATMOSPHERES  
 BINARY FLUIDS  
 BINARY MIXTURES  
 #CONTROLLED ATMOSPHERES  
 EUDIONETERS  
 EXHAUST GASES  
 FUEL-AIR RATIO  
 FUMES  
 GAS-GAS INTERACTIONS  
 GASEOUS ROCKET PROPELLANTS  
 IGNITION LIMITS  
 LAMINAR MIXING  
 LIGHTHILL GAS MODEL  
 LIQUEFIED GASES  
 LIQUID-GAS MIXTURES  
 PREMIXED FLAMES  
 GAS PHASES  
 USE VAPOR PHASES  
 GAS PIPES  
 1203  
 BT PIPES (TUBES)  
 RT GAS TUBES  
 GAS POCKETS  
 0603 1203 1306  
 RT CAVITIES  
 EVACUATING (VACUUM)  
 GAS EXCHANGE  
 GAS PRESSURE  
 2003 2311 3301  
 BT #PRESSURE  
 RT ATMOSPHERIC PRESSURE  
 COMPRESSED GAS  
 GAS EXPANSION  
 INTERNAL PRESSURE  
 PARTIAL PRESSURE  
 GAS REACTORS  
 0602 1203 2202 2203 2204 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CHEMICAL REACTORS  
 GAS COOLED REACTORS  
 GASEOUS FISSION REACTORS  
 GAS-SOLID INTERFACES  
 0602 1203 1702 1703  
 BT #BOUNDARIES  
 FLUID BOUNDARIES

# GAS SPECTROSCOPY

#INTERFACES  
 RT BOUNDARY LAYERS  
 GAS-METAL INTERACTIONS  
 HEAT TRANSFER  
 INTERFACE STABILITY  
 METAL SURFACES  
 OCCLUSION  
 SOLID PHASES  
 SOLID-SOLID INTERFACES  
 SOLUBILITY  
 SUBLIMATION  
 VAPOR PHASES  
 GAS SPECTROSCOPY  
 0601 1411  
 BT CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 #SPECTROSCOPY  
 RT MAGNETIC SPECTROSCOPY  
 MASS SPECTROSCOPY  
 SPECTROSCOPIC ANALYSIS  
 VACUUM SPECTROSCOPY  
 GAS STREAMS  
 1203 3304  
 BT #GASES  
 STREAMS  
 RT GAS FLOW  
 JET FLOW  
 LAMINAR FLOW  
 #TURBULENCE  
 WIND TUNNELS  
 GAS TEMPERATURE  
 1202 1203 1408 2404 3304  
 BT #TEMPERATURE  
 RT ATMOSPHERIC TEMPERATURE  
 GAS DYNAMICS  
 IONIZED GASES  
 RAREFIED GASES  
 SHOCK TUBES  
 SHOCK WAVES  
 TEMPERATURE MEASUREMENT  
 GAS TRANSPORT  
 0602 1203 2311  
 (ENCOMPASSES GAS DYNAMICS-- EXCLUDES  
 MATERIALS HANDLING)  
 RT ENERGY TRANSFER  
 GAS DENSITY  
 GAS DYNAMICS  
 GAS VISCOSITY  
 GASEOUS DIFFUSION  
 HEAT TRANSFER  
 #KINETIC THEORY  
 LIGHTHILL GAS MODEL  
 MAGNETOHYDRODYNAMICS  
 MASS TRANSFER  
 TRANSPORT THEORY  
 GAS TUBES  
 0602 0905 1002  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COLD CATHODE TUBES  
 GAS DISCHARGE TUBES  
 GAS PIPES  
 TRIGATONS  
 GAS TUNGSTEN ARC WELDING  
 1504  
 UP TIG WELDING  
 TUNGSTEN INERT GAS WELDING  
 BT ARC WELDING  
 ELECTRIC WELDING  
 FUSION WELDING  
 #WELDING  
 GAS TURBINE ENGINES  
 2805 2808  
 NT BRISTOL-SIDDELEY BS 53 ENGINE  
 BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
 BRISTOL-SIDDELEY VIPER ENGINE  
 CP-700 ENGINE  
 DUCTED FAN ENGINES  
 J-33 ENGINE  
 J-34 ENGINE  
 J-40 ENGINE  
 J-44 ENGINE  
 J-47 ENGINE  
 J-52 ENGINE  
 J-57 ENGINE  
 J-65 ENGINE  
 J-71 ENGINE  
 J-73 ENGINE  
 J-75 ENGINE  
 J-79 ENGINE  
 J-85 ENGINE

J-93 ENGINE  
 J-97 ENGINE  
 J-57-P-20 ENGINE  
 J-69-T-25 ENGINE  
 JET ENGINES  
 LOW VOLUME RAMJET ENGINES  
 PTL-6 ENGINE  
 PULSEJET ENGINES  
 RA-28 ENGINE  
 RAMJET ENGINES  
 STP-102 ENGINE  
 SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 T-34 ENGINE  
 T-38 ENGINE  
 T-53 ENGINE  
 T-55 ENGINE  
 T-56 ENGINE  
 T-58 ENGINE  
 T-63 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-76 ENGINE  
 T-78 ENGINE  
 T-58-G2-8B ENGINE  
 TP-30 ENGINE  
 TP-106 ENGINE  
 TURBOPAN ENGINES  
 TURBOJET ENGINES  
 TURBOPROP ENGINES  
 TURBORAMJET ENGINES  
 AIR BREATHING ENGINES  
 #ENGINES  
 INTERNAL COMBUSTION ENGINES  
 TURBINE ENGINES  
 RT AIRCRAFT ENGINES  
 AXIAL FLOW TURBINES  
 BRAYTON CYCLE  
 EXTERNAL COMBUSTION ENGINES  
 FLAMEOUT  
 GAS GENERATORS  
 GAS TURBINES  
 JET ENGINES  
 STEAM TURBINES  
 SUPERSONIC TURBINES  
 TURBOGENERATORS  
 TWO STAGE TURBINES  
 GAS TURBINES  
 1203 2801 3303  
 BT TURBINES  
 #TURBOMACHINERY  
 RT AXIAL FLOW TURBINES  
 BRAYTON CYCLE  
 CLOSED CYCLES  
 GAS GENERATORS  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 STEAM TURBINES  
 SUPERSONIC TURBINES  
 TURBOGENERATORS  
 TWO STAGE TURBINES  
 GAS VALVES  
 0602 1203 2808  
 BT PNEUMATIC EQUIPMENT  
 #VALVES  
 RT AUTOMATIC CONTROL VALVES  
 COCKS  
 DAMPERS (VALVES)  
 FUEL VALVES  
 GAS METERS  
 RELIEF VALVES  
 GAS VISCOSITY  
 0602 1203 2808  
 BT #TRANSPORT PROPERTIES  
 VISCOSITY  
 RT GAS LUBRICANTS  
 GAS TRANSPORT  
 GASEOUS DIFFUSION  
 LENNARD-JONES GAS  
 GAS WELDING  
 0602 1507 1704 3303  
 (EXCLUDES ELECTRIC WELDING IN THE  
 PRESENCE OF A CONTROLLED GASEOUS  
 ATMOSPHERE)  
 NT BRAZING  
 LOW TEMPERATURE BRAZING  
 ULTRASONIC SOLDERING  
 BT FUSION WELDING  
 #WELDING  
 RT GAS-METAL INTERACTIONS  
 PRESSURE WELDING

# NASA THESAURUS (ALPHABETICAL LISTING)

GASEOUS CAVITATION  
 USE CAVITATION FLOW  
 GAS FLOW  
 GASEOUS DIFFUSION  
 0602 1203 3304  
 NT GASEOUS SELF-DIFFUSION  
 BT #DIFFUSION  
 #TRANSPORT PROPERTIES  
 RT DIFFUSION COEFFICIENT  
 GAS DENSITY  
 GAS DYNAMICS  
 GAS FLOW  
 GAS-GAS INTERACTIONS  
 GAS-ION INTERACTIONS  
 GAS-LIQUID INTERACTIONS  
 GAS LUBRICANTS  
 GAS-METAL INTERACTIONS  
 GAS TRANSPORT  
 GAS VISCOSITY  
 MOLECULAR DIFFUSION  
 THERMAL DIFFUSION  
 GASEOUS FISSION REACTORS  
 0602 1203 2204 2405 3303  
 BT #NUCLEAR REACTORS  
 RT FISSIONABLE MATERIALS  
 GAS REACTORS  
 NUCLEAR PROPULSION  
 PLASMA PROPULSION  
 GASEOUS ROCKET PROPELLANTS  
 1203 2311 2701 2702 3301 3302  
 BT #PROPELLANTS  
 ROCKET PROPELLANTS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 ENDOTHERMIC FUELS  
 GAS MIXTURES  
 HIGH ENERGY PROPELLANTS  
 HYBRID PROPELLANTS  
 HYDROGEN FUELS  
 LIQUID ROCKET PROPELLANTS  
 MAN OPERATED PROPULSION SYSTEMS  
 MONOPROPELLANTS  
 STORABLE PROPELLANTS  
 GASEOUS SELF-DIFFUSION  
 0603 1203 3304  
 BT #DIFFUSION  
 GASEOUS DIFFUSION  
 #TRANSPORT PROPERTIES  
 RT ELECTRON DIFFUSION  
 GAS DYNAMICS  
 #KINETIC THEORY  
 MOLECULAR DIFFUSION  
 PARTICLE DIFFUSION  
 PLASMA DIFFUSION  
 #GASES  
 1203 1506 1805 1807  
 NT ARGON  
 ARGON ISOTOPES  
 CARBON DIOXIDE  
 CARBON MONOXIDE  
 COLD GAS  
 COMPRESSED GAS  
 COSMIC GASES  
 DETONABLE GAS MIXTURES  
 DEUTERIUM  
 DEUTERIUM PLASMA  
 DIATOMIC GASES  
 EXHAUST GASES  
 FLAMMABLE GASES  
 GAS MIXTURES  
 GAS STREAMS  
 GRAY GAS  
 HELIUM  
 HELIUM ATOMS  
 HELIUM FILM  
 HELIUM ISOTOPES  
 HIGH TEMPERATURE AIR  
 HIGH TEMPERATURE GASES  
 HYDROGEN  
 HYDROGEN ATOMS  
 HYDROGEN IONS  
 HYDROGEN ISOTOPES  
 HYDROGEN PLASMA  
 HYDROGEN 4  
 IDEAL GAS  
 INTERPLANETARY GAS  
 INTERSTELLAR GAS  
 IONIZED GASES  
 LIQUEFIED GASES  
 LIQUID AMMONIA  
 LIQUID HELIUM  
 LIQUID HYDROGEN  
 LIQUID NEON

# NASA THESAURUS (ALPHABETICAL LISTING)

LIQUID NITROGEN  
 LIQUID OXYGEN  
 LORENTZ GAS  
 MOLECULAR GASES  
 MONATOMIC GASES  
 NEON  
 NEON ISOTOPES  
 NITROGEN  
 NONCONDENSIBLE GASES  
 NONGRAY GAS  
 NONPOLAR GASES  
 ORTHO HYDROGEN  
 OXYGEN  
 PARA HYDROGEN  
 PHOSGENE  
 POLAR GASES  
 POLYATOMIC GASES  
 PYROGEN  
 RADON  
 RADON ISOTOPES  
 RARE GASES  
 RAREFIED GASES  
 REAL GASES  
 RESIDUAL GAS  
 SOLIDIFIED GASES  
 TRITIUM  
 XENON  
 XENON ISOTOPES  
 XENON 129  
 XENON 133  
 XENON 135  
 RT AIR  
 ATMOSPHERES  
 FLUIDS  
 #FUELS  
 FUMES  
 GAS DYNAMICS  
 GAS FLOW  
 HYDROGEN CLOUDS  
 METAL-GAS SYSTEMS  
 ODORS  
 #PLASMAS (PHYSICS)  
 PNEUMATICS  
 VAPOR PHASES  
 #VAPORS  
 GASKETS  
 1504  
 BT SEALS (STOPPERS)  
 RT O RING SEALS  
 PUMP SEALS  
 GASOLINE  
 1808 2701  
 BT CHEMICAL FUELS  
 #FUELS  
 HYDROCARBON FUELS  
 RT ANTIKNOCK ADDITIVES  
 JET ENGINE FUELS  
 KEROSENE  
 OCTANE NUMBER  
 GASTROINTESTINAL SYSTEM  
 0401 0404 0405 0408  
 NT APPENDIX (ANATOMY)  
 INTESTINES  
 RECTUM  
 STOMACH  
 BT #DIGESTIVE SYSTEM  
 RT ABDOMEN  
 COLIC  
 GALL  
 GLANDS (ANATOMY)  
 LIVER  
 ORGANS  
 PANCREAS  
 GATES  
 0903 1001 1002 1201 1501 1504 3301  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CLOSURES  
 GATES (CIRCUITS)  
 GATES (OPENINGS)  
 GATES (CIRCUITS)  
 0903 1001 1002  
 UP OR-GATES  
 NT THRESHOLD GATES  
 BT #CIRCUITS  
 RT COINCIDENCE CIRCUITS  
 GATES  
 LOGIC CIRCUITS  
 LOGICAL ELEMENTS  
 SWITCHING CIRCUITS  
 THRESHOLD LOGIC

TRIGGER CIRCUITS  
 GATES (OPENINGS)  
 1504 3404  
 RT APERTURES  
 BARRIERS  
 CANALS  
 DOORS  
 FENCES (BARRIERS)  
 GATES  
 HATCHES  
 HYDRAULIC EQUIPMENT  
 #OPENINGS  
 OUTLETS  
 SAFETY DEVICES  
 VENTS  
 WALLS  
 GAUGE INVARIANCE  
 1406 1902 2311  
 BT INVARIANCE  
 RT #ELECTROMAGNETIC RADIATION  
 TRANSFORMATIONS (MATHEMATICS)  
 GAUSS EQUATION  
 1902 1905 2402  
 UP GAUSS FUNCTION  
 BT #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 REAL VARIABLES  
 RT MAXWELL EQUATION  
 GAUSS FUNCTION  
 USE GAUSS EQUATION  
 GAUSS-MARKOV THEOREM  
 1902 1905  
 BT #THEOREMS  
 RT LEAST SQUARES METHOD  
 #STATISTICAL ANALYSIS  
 VARIANCE (STATISTICS)  
 GAUSSIAN DISTRIBUTIONS  
 USE NORMAL DENSITY FUNCTIONS  
 GAUSSIAN NOISE  
 USE RANDOM NOISE  
 GAUSSMETERS  
 USE MAGNETOMETERS  
 GAUZE  
 0401 0405 0412 0508 1811  
 BT FABRICS  
 RT CASTS  
 GC-130 AIRCRAFT  
 USE C-130 AIRCRAFT  
 GCR (REACTORS)  
 USE GAS COOLED REACTORS  
 GEAR  
 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ARRESTING GEAR  
 GEARS  
 LANDING GEAR  
 #MECHANICAL DRIVES  
 GEAR TEETH  
 1503 1504 1704  
 BT GEARS  
 GEARS  
 1504  
 NT RACKS (GEARS)  
 RT GEAR  
 GEAR TEETH  
 IDLERS  
 LUBRICATION  
 #MECHANICAL DRIVES  
 #WHEELS  
 GEGENSCHREIN  
 1301 1401 1407 2306 2310  
 BT #ELECTROMAGNETIC RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 LIGHT (VISIBLE RADIATION)  
 RT NIGHT SKY  
 POLARIZED LIGHT  
 SKY BRIGHTNESS  
 SOLAR RADIATION  
 TERRESTRIAL DUST BELT  
 ZODIACAL LIGHT  
 GEHLWHITE  
 1806  
 BT #CALCIUM COMPOUNDS  
 CALCIUM SILICATES  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 GEIGER COUNTERS  
 1406 2405 2903  
 UP GEIGER-MUELLER TUBES

## GENI 3 FLIGHT

BT COUNTERS  
 IONIZATION CHAMBERS  
 #MEASURING INSTRUMENTS  
 RADIATION COUNTERS  
 RT DOSIMETERS  
 NEUTRON COUNTERS  
 OVERVOLTAGE  
 PARTICLE TELESCOPES  
 PROPORTIONAL COUNTERS  
 RADIATION DETECTORS  
 GEIGER-MUELLER TUBES  
 USE GEIGER COUNTERS  
 GELATINS  
 0404 1802 1808 1810  
 RT COLLAGENS  
 FOOD  
 GELS  
 NONNEWTONIAN FLUIDS  
 GELATION  
 0602 2311 3304  
 RT COAGULATION  
 COLLOIDING  
 GELS  
 SOLIDIFICATION  
 THIXOTROPY  
 GELLED PROPELLANTS  
 2702  
 NT GELLED ROCKET PROPELLANTS  
 BT #PROPELLANTS  
 RT CHEMICAL FUELS  
 COLLOIDAL PROPELLANTS  
 HIGH TEMPERATURE PROPELLANTS  
 HYDROGEN FUELS  
 METAL FUELS  
 METAL PROPELLANTS  
 PLASTIC PROPELLANTS  
 PROPELLANT ADDITIVES  
 SOLID PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 2702  
 UP THIXOTROPIC PROPELLANTS  
 BT #FUELS  
 GELLED PROPELLANTS  
 LIQUID ROCKET PROPELLANTS  
 #LIQUIDS  
 #PROPELLANTS  
 ROCKET PROPELLANTS  
 RT CHEMICAL FUELS  
 CRYOGENIC ROCKET PROPELLANTS  
 GELS  
 HIGH TEMPERATURE PROPELLANTS  
 HYBRID PROPELLANTS  
 HYPERGOLIC ROCKET PROPELLANTS  
 METAL PROPELLANTS  
 MONOPROPELLANTS  
 SLURRY PROPELLANTS  
 SOLID ROCKET PROPELLANTS  
 STORABLE PROPELLANTS  
 GELS  
 0602 1801 1804 1808 3302  
 NT DOUBLE BASE ROCKET PROPELLANTS  
 RT COLLOIDS  
 DOPES  
 GELATINS  
 GELATION  
 GELLED ROCKET PROPELLANTS  
 NONNEWTONIAN FLUIDS  
 SLURRIES  
 THICKENERS (MATERIALS)  
 THIXOTROPY  
 GENI (GT-1) SPACECRAFT  
 3104  
 BT GENI SPACECRAFT  
 #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SOFT LANDING SPACECRAFT  
 RT GENI PROJECT  
 MANNED SPACE FLIGHT  
 GENI B SPACECRAFT  
 3104 3105 3107  
 BT #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 #SOFT LANDING SPACECRAFT  
 RT GENI PROJECT  
 MANNED SPACE FLIGHT  
 GENI 3 FLIGHT  
 3104  
 BT GENI FLIGHTS  
 MANNED SPACE FLIGHT  
 #SPACE FLIGHT

# GEMINI 4 FLIGHT

RT TITAN LAUNCH VEHICLES  
GEMINI 4 FLIGHT  
3104 3107  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
GEMINI 5 FLIGHT  
3104 3107  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
GEMINI 6 FLIGHT  
3104 3107  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
GEMINI 7 FLIGHT  
3104  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT TITAN LAUNCH VEHICLES  
GEMINI 8 FLIGHT  
3104  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT TITAN LAUNCH VEHICLES  
GEMINI 9 FLIGHT  
3104  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT ATLAS AGENA LAUNCH VEHICLE  
TITAN LAUNCH VEHICLES  
GEMINI 10 FLIGHT  
3104  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT TITAN LAUNCH VEHICLES  
GEMINI 11 FLIGHT  
3104  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT TITAN LAUNCH VEHICLES  
GEMINI 12 FLIGHT  
3104  
BT GEMINI FLIGHTS  
MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT TITAN LAUNCH VEHICLES  
GEMINI FLIGHTS  
3104 3107  
RT GEMINI 3 FLIGHT  
GEMINI 4 FLIGHT  
GEMINI 5 FLIGHT  
GEMINI 6 FLIGHT  
GEMINI 7 FLIGHT  
GEMINI 8 FLIGHT  
GEMINI 9 FLIGHT  
GEMINI 10 FLIGHT  
GEMINI 11 FLIGHT  
GEMINI 12 FLIGHT  
BT MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT GEMINI PROJECT  
GEMINI SPACECRAFT  
3104 3105 3107  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT AGENA B ROCKET VEHICLE  
AGENA ROCKET VEHICLES  
ATLAS LAUNCH VEHICLES  
GEMINI (GT-1) SPACECRAFT  
GEMINI B SPACECRAFT  
GEMINI FLIGHTS  
GEMINI SPACECRAFT  
GEMINI 2 SPACECRAFT  
INTEGRATED MISSION CONTROL CENTER  
MERCURY PROJECT  
TITAN PROJECT  
GEMINI SPACECRAFT  
3104 3105 3107  
RT GEMINI (GT-1) SPACECRAFT  
GEMINI 2 SPACECRAFT  
BT MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES

#SOFT LANDING SPACECRAFT  
RT GEMINI FLIGHTS  
GEMINI PROJECT  
MANNED SPACE FLIGHT  
#SPACE CAPSULES  
TITAN PROJECT  
GEMINI 2 SPACECRAFT  
3104  
BT GEMINI SPACECRAFT  
#MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
RT GEMINI PROJECT  
MANNED SPACE FLIGHT  
GEMINID METEOROLIDS  
3005  
BT #CELESTIAL BODIES  
METEOROID SHOWERS  
METEOROLIDS  
GENERAL AVIATION AIRCRAFT  
0204  
UF EXECUTIVE AIRCRAFT  
PRIVATE AIRCRAFT  
PRIVATE AVIATION  
RT BEECHCRAFT 18 AIRCRAFT  
BEECHCRAFT 95 AIRCRAFT  
C-33 AIRCRAFT  
C-35 AIRCRAFT  
CESSNA 172 AIRCRAFT  
CESSNA 205 AIRCRAFT  
CESSNA 210 AIRCRAFT  
CESSNA 336 AIRCRAFT  
DH 125 AIRCRAFT  
DO-27 AIRCRAFT  
DO-28 AIRCRAFT  
FIAT 7002 HELICOPTER  
G-1 AIRCRAFT  
GRASSHOPPER HELICOPTER  
GY-80 AIRCRAFT  
HC-3 HELICOPTER  
KH-4 HELICOPTER  
M-218 AIRCRAFT  
YAK 40 AIRCRAFT  
RT AIRCRAFT  
CIVIL AVIATION  
#COMMERCIAL AIRCRAFT  
DINFIA FA AIRCRAFT  
HELICOPTERS  
#JET AIRCRAFT  
LIGHT AIRCRAFT  
LOW WING AIRCRAFT  
PASSENGER AIRCRAFT  
PIPER AIRCRAFT  
SUBSONIC AIRCRAFT  
TRAINING AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
UTILITY AIRCRAFT  
#GENERAL DYNAMICS AIRCRAFT  
0207  
UF CONVAIR MILITARY AIRCRAFT  
GENERAL DYNAMICS MILITARY AIRCRAFT  
RT B-58 AIRCRAFT  
C-131 AIRCRAFT  
CANADAIR AIRCRAFT  
CL-28 AIRCRAFT  
CL-41 AIRCRAFT  
CL-44 AIRCRAFT  
CL-84 AIRCRAFT  
CONVAIR 880 AIRCRAFT  
CV-340 AIRCRAFT  
CV-440 AIRCRAFT  
CV-880 AIRCRAFT  
CV-990 AIRCRAFT  
F-102 AIRCRAFT  
F-106 AIRCRAFT  
F-111 AIRCRAFT  
RT AIRCRAFT  
GENERAL DYNAMICS MILITARY AIRCRAFT  
USE #GENERAL DYNAMICS AIRCRAFT  
GENERAL ELECTRIC COMPUTERS  
0801 0905  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
GENERALIZATION (PSYCHOLOGY)  
3406 3407  
RT TRANSPER OF TRAINING  
GENERATION  
0404 3403 3407  
(USE OF A MORE SPECIFIC TERM IS

# NASA TREASURES (ALPHABETICAL LISTING)

RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT HEAT GENERATION  
INITIATION  
REGENERATION (ENGINEERING)  
GENERATORS  
0301 0302 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ARC GENERATORS  
BOILERS  
CAVITY VAPOR GENERATORS  
COLLOIDAL GENERATORS  
DECOMPUTATORS  
DUOCHROMATORS  
#ELECTRIC GENERATORS  
ENERGY CONVERSION EFFICIENCY  
FUNCTION GENERATORS  
GAS GENERATORS  
HALL GENERATORS  
HARMONIC GENERATORS  
IMPULSE GENERATORS  
#MOTORS  
#PLASMA GENERATORS  
PULSE GENERATORS  
RADIATION SOURCES  
REPORT GENERATORS  
#SHOCK WAVE GENERATORS  
SIGNAL GENERATORS  
SOUND GENERATORS  
STATORS  
#STIMULATED EMISSION DEVICES  
SUBHARMONIC GENERATORS  
TURBOGENERATORS  
VAPORIZERS  
VOLTAGE GENERATORS  
VORTEX GENERATORS  
WAVE GENERATION  
GENETIC CODE  
0404 0411 1808  
BT #GENETICS  
#GENETICS  
0403 0404 0411  
RT GENETIC CODE  
MUTATIONS  
RT BIOLOGICAL EVOLUTION  
BIOLOGY  
CHROMOSOMES  
CYTOGENESIS  
DOMINANCE  
#EVOLUTION (DEVELOPMENT)  
NEUROSPORA  
NUCLEOGENESIS  
GENIE ROCKET VEHICLE  
3106 3401  
UF NB-1 ROCKET VEHICLE  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
RT ASTROBEE 200 ROCKET VEHICLE  
ASTROBEE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES  
GENITOURINARY SYSTEM  
0401 0404 0405  
RT BLADDER  
OVARIES  
PROSTATE GLAND  
TESTES  
UTERUS  
BT #ANATOMY  
RT UROLOGY  
GEOASTROPHYSICS  
USE ASTROPHYSICS  
GEOPHYSICS  
GEOBOTANY  
0404 0409  
BT BOTANY  
RT #PLANTS (BOTANY)  
TREES (PLANTS)  
GEOCENTRIC COORDINATES  
1303 1304 1305 1307 2808  
BT #COORDINATES  
PLANETOCENTRIC COORDINATES  
RT ASTRONOMICAL COORDINATES  
CELESTIAL REFERENCE SYSTEMS  
INERTIAL COORDINATES  
PLANET EPHEMERIDES  
GEOCHEMISTRY  
0601 1306 1308  
RT BIOGEOCHEMISTRY  
RT CHEMISTRY  
GEOCHRONOLOGY

# NASA THESAURUS (ALPHABETICAL LISTING)

# #GEOMETRY

#GEOLOGY  
GEOPHYSICS  
HYDROLOGY  
MINERALOGY  
PALEONTOLOGY  
PETROLOGY  
RADIOACTIVITY  
GEOCHRONOLOGY  
1308 2406  
BT #GEOLOGY  
RT GEOCHEMISTRY  
GEOPHYSICS  
PALEONTOLOGY  
RADIOACTIVE AGE DETERMINATION  
STRATIGRAPHY  
GEOCORONAL EMISSIONS  
1302 1807 2003  
BT AIRGLOW  
#ATMOSPHERIC RADIATION  
#ELECTROMAGNETIC RADIATION  
LIGHT (VISIBLE RADIATION)  
SKY RADIATION  
GEOCYCLOTRONS  
2311 2403 3404  
BT CYCLOTRONS  
#PARTICLE ACCELERATORS  
ACCELERATORS  
ELEMENTARY PARTICLES  
GEODESY  
1304  
UF EARTH FIGURE  
EARTH SHAPE  
IZSAK ELLIPSOID  
NT CELESTIAL GEODESY  
RT EARTH (PLANET)  
EARTH AXIS  
GEODETIC SURVEYS  
GEODES  
#GEOLOGY  
GEOPHYSICS  
GRAVIMETERS  
OBLATE SPHEROIDS  
OGO-D  
OGO-E  
#PERTURBATION  
TOPOGRAPHY  
VINTI THEORY  
GEODETIC COORDINATES  
1303 1304  
BT #COORDINATES  
RT LATITUDE  
LONGITUDE  
GEODETIC SATELLITES  
1303 1304 3107  
NT ANNA SATELLITES  
EXPLORER 29 SATELLITE  
EXPLORER 36 SATELLITE  
GEOS-C SATELLITE  
GEOS 1 SATELLITE  
GEOS 2 SATELLITE  
LARGOS SATELLITE  
PAGEOS SATELLITE  
VANGUARD 1 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
RT ACTIVE SATELLITES  
CELESTIAL GEODESY  
NAVIGATION SATELLITES  
NAVSTAR SATELLITES  
PASSIVE SATELLITES  
VANGUARD SATELLITES  
GEODETIC SURVEYS  
1303 1304 1406  
BT SURVEYS  
RT GEODESY  
TOPOGRAPHY  
GEODIMETERS  
1303 1304 1406  
BT DISTANCE MEASURING EQUIPMENT  
#MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RT #OPTICAL MEASUREMENT  
RANGE FINDERS  
TELLURIMETERS  
GEOELECTRICITY  
1307 1308 1309 2304 2307  
NT TELLURIC CURRENTS  
BT #ELECTRICITY  
RT EARTH (PLANET)

GEOPHYSICS  
GEOPOTENTIAL  
GEOGRAPHIC APPLICATIONS PROGRAM  
1303 1304 1305 1308 1410 3409  
BT #PROGRAMS  
SPACE PROGRAMS  
RT EARTH RESOURCES  
EARTH RESOURCES PROGRAM  
GEOGRAPHY  
MAPPING  
NASA PROGRAMS  
REMOTE SENSORS  
SATELLITE-BORNE PHOTOGRAPHY  
SOIL MAPPING  
TERRAIN ANALYSIS  
GEOGRAPHY  
1303 1304 1305  
NT OROGRAPHY  
RT ARCTIC REGIONS  
CADASTRAL MAPPING  
CLIMATOLOGY  
#CONTINENTS  
EARTH (PLANET)  
ESTUARIES  
GEOGRAPHIC APPLICATIONS PROGRAM  
GEOMORPHOLOGY  
MAPPING  
#MAPS  
OCEANOGRAPHY  
OCEANS  
POLAR REGIONS  
TEMPERATE REGIONS  
TROPICAL REGIONS  
GEOIDS  
1304 1307  
RT GEODESY  
#GEOMETRY  
GEOPHYSICS  
OBLATE SPHEROIDS  
SHAPES  
SPHEROIDS  
#SYMMETRICAL BODIES  
GEOLOGICAL FAULTS  
1306  
RT CREVASSES  
EARTHQUAKES  
FAULTS  
FORMATION  
ROUSE BELTS  
#GEOLOGY  
1306  
NT GEOCHRONOLOGY  
GEOMORPHOLOGY  
GLACIOLOGY  
HYDROGEOLOGY  
LITHOLOGY  
LUNAR GEOLOGY  
OROGRAPHY  
PETROGRAPHY  
PETROLOGY  
PHOTOGEOLOGY  
TECTONICS  
VOLCANOLOGY  
RT CANADIAN SHIELD  
CONTINENTAL SHELVES  
DOMES (GEOLOGY)  
EARTH (PLANET)  
EARTH PLANETARY STRUCTURE  
EXPLOITATION  
#EXPLORATION  
FORMATION  
GEOCHEMISTRY  
GEODESY  
GEOPHYSICAL OBSERVATORIES  
GEOPHYSICS  
GRAVIMETRY  
#METEOROLOGY  
MINERAL DEPOSITS  
MINERALOGY  
#MINERALS  
MORPHOLOGY  
OCEAN BOTTOM  
OCEANOGRAPHY  
OIL EXPLORATION  
OUTCROPS  
PALEOMAGNETISM  
PALEONTOLOGY  
PRECAMBRIAN PERIOD  
ROCKS  
SCIENCE  
SEISMOLOGY  
#SOILS

STRATIGRAPHY  
GEOMAGNETIC ANOMALIES  
USE MAGNETIC ANOMALIES  
GEOMAGNETIC CROUCHETS  
USE SUDDEN IONOSPHERIC DISTURBANCES  
GEOMAGNETIC EFFECTS  
USE MAGNETIC EFFECTS  
GEOMAGNETIC EQUATOR  
USE MAGNETIC EQUATOR  
GEOMAGNETIC FIELD  
USE GEOMAGNETISM  
GEOMAGNETIC HOLLOW  
1307 2307 2502  
BT #ABNORMALITIES  
MAGNETIC ANOMALIES  
RT MAGNETOHYDRODYNAMIC FLOW  
MAGNETOSPHERE  
PLASMA CLOUDS  
GEOMAGNETIC LATITUDE  
1303 1305 1307 2307  
BT LATITUDE  
RT #COORDINATES  
GEOMAGNETISM  
GEOMAGNETIC MICROPULSATIONS  
1304 1307 2307  
BT GEOMAGNETIC PULSATIONS  
MAGNETIC VARIATIONS  
MICROPULSATIONS  
#PULSES  
#VARIATIONS  
RT NOCTURNAL VARIATIONS  
TELLURIC CURRENTS  
GEOMAGNETIC PULSATIONS  
1307 2307  
NT GEOMAGNETIC MICROPULSATIONS  
BT MAGNETIC VARIATIONS  
#PULSES  
#VARIATIONS  
RT GEOMAGNETISM  
MAGNETOSPHERIC INSTABILITY  
NOCTURNAL VARIATIONS  
GEOMAGNETIC STORMS  
USE MAGNETIC STORMS  
GEOMAGNETIC TAIL  
1307 2307  
BT MAGNETOSPHERE  
RT GEOMAGNETISM  
#MAGNETIC FIELDS  
PLANETARY MAGNETIC FIELDS  
GEOMAGNETICALLY TRAPPED PARTICLES  
USE RADIATION BELTS  
GEOMAGNETISM  
1307  
UF AEROMAGNETISM  
GEOMAGNETIC FIELD  
MAGNETOTELLURIC PROFILING  
TERRESTRIAL MAGNETISM  
BT #MAGNETIC FIELDS  
#MAGNETIC PROPERTIES  
RT CONTINENTAL DRIFT  
DYNAMO THEORY  
EARTH (PLANET)  
ELECTROJETS  
FIELD THEORY (PHYSICS)  
GEOMAGNETIC LATITUDE  
GEOMAGNETIC PULSATIONS  
GEOMAGNETIC TAIL  
GEOPHYSICS  
INCLINATION  
M REGION  
MAGNETIC ANOMALIES  
MAGNETIC DISTURBANCES  
MAGNETIC EFFECTS  
MAGNETIC EQUATOR  
MAGNETIC POLES  
MAGNETIC SURVEYS  
MAGNETOIONICS  
MAGNETOMETERS  
MAGNETOSPHERE  
PALEOMAGNETISM  
PLANETARY MAGNETIC FIELDS  
VARIOMETERS  
GEOMETRICAL HYDROMAGNETICS  
USE MAGNETOHYDRODYNAMICS  
GEOMETRICAL OPTICS  
USE OPTICS  
GEOMETRODYNAMICS  
USE RELATIVITY  
#GEOMETRY  
1902  
NT ANALYTIC GEOMETRY  
ANGLES (GEOMETRY)

# EOMORPHOLOGY

# NASA THESAURUS (ALPHABETICAL LISTING)

BOSE GEOMETRY	MEASUREMENT	EARTH PLANETARY STRUCTURE
BRAGG ANGLE	*PLANFORMS	FORMATIONS
BREWSTER ANGLE	POINCARÉ SPHERES	GEOCHEMISTRY
CARTESIAN COORDINATES	POSITION (LOCATION)	GEOCHRONOLOGY
CATENARIES	PROFILES	GEODESY
CHORDS (GEOMETRY)	RECIPROCAL THEOREMS	GEOELECTRICITY
CIRCLES (GEOMETRY)	SHAPES	GEOLDS
CIRCUMFERENCES	SIDES	*GEOLOGY
COLLINEARITY	SPHERES	GEOMAGNETISM
CONICS	SURFACE GEOMETRY	GEOPHYSICAL OBSERVATORIES
COPLANARITY	SURVEYS	GRAVIMETERS
CUBES (MATHEMATICS)	SYMMETRY	GRAVIMETRY
CURL (VECTORS)	TOROIDS	HEAT TRANSMISSION
CURVATURE	UNIQUENESS THEOREM	HYDROGRAPHY
CURVES (GEOMETRY)	VENN DIAGRAMS	HYDROLOGY
CUSPS (MATHEMATICS)	VOLUME	INTERNATIONAL GEOPHYSICAL YEAR
CYCLOIDS	GEOMORPHOLOGY	ISOSTASY
DESCRIPTIVE GEOMETRY	1304 1306	*METEOROLOGY
DIFFERENTIAL GEOMETRY	UP PHYSIOGRAPHY	OCEANOGRAPHY
DOUBLE CUSPS	BT *GEOLOGY	PALEOMAGNETISM
ELLIPSES	RT MORPHOLOGY	PETROLOGY
EPICYCLOIDS	RT CONTOURS	PHYSICS
EUCLIDEAN GEOMETRY	GEOGRAPHY	RADIATION
FIXED POINTS (MATHEMATICS)	GLACIOLOGY	RADIOACTIVITY
FLOW GEOMETRY	ISOSTASY	SEISMOLOGY
GOMPERTZ CURVES	LUNAR GEOLOGY	STRATIGRAPHY
GREAT CIRCLES	MOUNTAINS	TECTONICS
HEXAGONS	OROGRAPHY	*THEORETICAL PHYSICS
HOMOTOPY THEORY	PHOTO GEOLOGY	TOPOGRAPHY
HYPERBOLAS	SLUMPING	GEOPOTENTIAL
ICOSAHEDRONS	TERRAIN	2308 2311 1308 1309
IMBEDDINGS (MATHEMATICS)	TOPOGRAPHY	NT GEOPOTENTIAL HEIGH
INFLECTION POINTS	VOLCANOLOGY	RT GEOELECTRICITY
INVARIANT IMBEDDINGS	GEON (TRADEMARK)	GRAVITATIONAL PIE
LIE GROUPS	USE POLYVINYL CHLORIDE	HEIGHT
LINES (GEOMETRY)	GEOPHYSICAL OBSERVATORIES	POTENTIAL
LINKS (MATHEMATICS)	1106 1308 2003 3107	*POTENTIAL ENERGY
LOCI	NT EGO	GEOPOTENTIAL HEIGHT
MERCATOR PROJECTION	OGO	1406 2311
METRIC SPACE	OGO-A	BT GEOPOTENTIAL
NOZZLE GEOMETRY	OGO-B	*POTENTIAL ENERGY
OBLATE SPHEROIDS	OGO-C	RT ATMOSPHERIC PRESSURE
OCTAHEDRONS	OGO-D	*EARTH ATMOSPHERE
PARABOLAS	OGO-E	GRAVITATIONAL FIELDS
PARALLELEPIPEDS	OGO-F	HEAD (FLUID MECHANICS)
PARALLELOGRAMS	OSO-F	SCALE HEIGHT
POINTS (MATHEMATICS)	OSO-G	GEORGIA
POLYGONS	OSO-4	1305
POLYHEDRONS	OSO-4	BT UNITED STATES OF AMERICA
PROJECTIVE GEOMETRY	POGO	GEOS-C SATELLITE
PROLATE SPHEROIDS	BT *OBSERVATORIES	1303 1304 3107
PYRAMIDS	RT ASTRONOMICAL OBSERVATORIES	BT ARTIFICIAL SATELLITES
QUADRANTS	*GEOLOGY	EARTH SATELLITES
RADII	GEOPHYSICAL SATELLITES	GEODETIC SATELLITES
RECTANGLES	GEOPHYSICS	*SATELLITES
RHOMBOHEDRONS	GEOPHYSICAL SATELLITES	*UNMANNED SPACECRAFT
RIEMANN MANIFOLD	1308 2003 2004 3107	RT ACTIVE SATELLITES
S CURVES	NT EGO	ANNA SATELLITES
SPHEROIDS	EXPLORER 6 SATELLITE	CELESTIAL GEODESY
SPINOR GROUPS	EXPLORER 10 SATELLITE	LARGOS SATELLITE
SQUARES (MATHEMATICS)	EXPLORER 12 SATELLITE	PAGEOS SATELLITE
TANGENTS	EXPLORER 13 SATELLITE	GEOS 1 SATELLITE
TANK GEOMETRY	OGO	1303 1304 3107
TENSOR ANALYSIS	OGO-A	BT ARTIFICIAL SATELLITES
TETRAGONS	OGO-B	EARTH SATELLITES
TETRAHEDRONS	OGO-C	GEODETIC SATELLITES
TOPOLOGY	OGO-D	*SATELLITES
TORUSES	OGO-E	*UNMANNED SPACECRAFT
TRAPEZOIDS	OGO-F	RT ACTIVE SATELLITES
TRIANGLES	OSO-F	ANNA SATELLITES
TRIGONOMETRY	OSO-G	CELESTIAL GEODESY
VECTOR ANALYSIS	OSO-4	EXPLORER 29 SATELLITE
VORTICITY	OSO-4	LARGOS SATELLITE
RT *ANALYSIS (MATHEMATICS)	POGO	PAGEOS SATELLITE
AREA	SPUTNIK 3 SATELLITE	GEOS 2 SATELLITE
BODIES OF REVOLUTION	VANGUARD 3 SATELLITE	1303 1304 3107
COMPLEX NUMBERS	BT ARTIFICIAL SATELLITES	BT ARTIFICIAL SATELLITES
CONGRUENCES	EARTH SATELLITES	EARTH SATELLITES
*COORDINATES	*SATELLITES	GEODETIC SATELLITES
CROSS SECTIONS	RT ARIEL SATELLITES	*SATELLITES
*CRYSTAL LATTICES	COMMUNICATION SATELLITES	*UNMANNED SPACECRAFT
DIAGRAMS	GEOPHYSICAL OBSERVATORIES	RT ACTIVE SATELLITES
DIAMETERS	METEOROLOGICAL SATELLITES	ANNA SATELLITES
*DIMENSIONS	SPACE LABORATORIES	CELESTIAL GEODESY
DISTANCE	*UNMANNED SPACECRAFT	EXPLORER 36 SATELLITE
FOCI	VANGUARD SATELLITES	LARGOS SATELLITE
FRUSTUMS	GEOPHYSICS	PAGEOS SATELLITE
GEOLDS	1308 2003	GEOSTROPHIC WIND
HYPERGEOMETRIC FUNCTIONS	UP GEOASTROPHYSICS	2002 2003 2311
HYPERSPHERES	RT AERONOMY	BT *WIND (METEOROLOGY)
INFINITY	CONTINENTAL DRIFT	WINDS ALOFT
MATHEMATICS	EARTH (PLANET)	RT BAROCLINIC WAVES

# WASA THESAURUS (ALPHABETICAL LISTING)

DIVERGENCE  
ISOBARS (PRESSURE)  
WIND SHEAR  
GEOTROPISM  
0404 0408 0409  
BT TROPISM  
RT GRAVITATIONAL EFFECTS  
#PHYSIOLOGICAL EFFECTS  
#PLANTS (BOTANY)  
GEP TELESCOPES  
USE PARTICLE TELESCOPES  
GERDIEN ARC HEATERS  
USE ARC HEATING  
#HEATING EQUIPMENT  
GERDIEN CONDENSERS  
1301 1302 1504 3108 3110  
BT #MEASURING INSTRUMENTS  
RT CAPACITORS  
ION DENSITY (CONCENTRATION)  
GERIATRICS  
0405  
BT #MEDICAL SCIENCE  
RT AGING (BIOLOGY)  
GERONTOLOGY  
GERMANATES  
0603 1804  
RT MAGNESIUM GERMANATES  
BT #GERMANIUM COMPOUNDS  
GERMANIDES  
0603 1804  
RT MAGNESIUM GERMANIDES  
BT #GERMANIUM COMPOUNDS  
RT GERMANIUM ALLOYS  
GERMANIUM  
1703  
NT GERMANIUM ISOTOPES  
SILICON  
TELLURIUM  
TELLURIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
GERMANIUM ALLOYS  
0603 1703 1804  
BT #ALLOYS  
RT GERMANIDES  
GERMANIUM ANTIMONIDES  
0603 1804  
BT ANTIMONIDES  
#ANTIMONY COMPOUNDS  
#GERMANIUM COMPOUNDS  
GERMANIUM CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
#GERMANIUM COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#GERMANIUM COMPOUNDS  
0603 1703 1804  
NT GERMANATES  
GERMANIDES  
GERMANIUM ANTIMONIDES  
GERMANIUM CHLORIDES  
GERMANIUM OXIDES  
MAGNESIUM GERMANATES  
MAGNESIUM GERMANIDES  
ORGANIC GERMANIUM COMPOUNDS  
RT CHEMICAL COMPOUNDS  
GROUP 4A COMPOUNDS  
GERMANIUM DIODES  
0603 1703 2603  
UP GERMANIUM RECTIFIERS  
BT #DIODES  
#ELECTRONIC EQUIPMENT  
#RECTIFIERS  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
RT JUNCTION DIODES  
TRANSISTORS  
GERMANIUM ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
GERMANIUM  
ISOTOPES  
METALLOIDS  
NUCLIDES  
GERMANIUM OXIDES  
0603 1703 1804  
BT #CHALCOGENIDES  
#GERMANIUM COMPOUNDS  
OXIDES  
RT OXYGEN COMPOUNDS

GERMANIUM RECTIFIERS  
USE GERMANIUM DIODES  
GERMANY  
1305  
UP WEST GERMANY  
RT EUROPE  
NATIONS  
GERMICIDES  
USE BACTERICIDES  
GERMINATION  
0409 0411  
RT CROP GROWTH  
#GROWTH  
VIABILITY  
GERONTOLOGY  
0404  
RT AGING (BIOLOGY)  
GERIATRICS  
LIFE SPAN  
GERT  
0802 3405 3406  
UP GRAPHIC EVALUATION AND REVIEW  
TECHNIQUES  
RT CRITICAL PATH METHOD  
#MANAGEMENT  
MANAGEMENT ANALYSIS  
MANAGEMENT METHODS  
MANAGEMENT PLANNING  
METHODOLOGY  
PERT  
PROJECT MANAGEMENT  
GESTALT THEORY  
0408  
RT THEORIES  
GETOL AIRCRAFT  
0201 0205  
BT GROUND EFFECT MACHINES  
RT SUBSONIC AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
GETTERS  
0903 1703 1802  
RT ION PUMPS  
PURIFICATION  
RESIDUAL GAS  
VACUUM  
VAPOR TRAPS  
GEYSERS  
1304  
BT EARTH RESOURCES  
RT HYDROGEOLOGY  
GHOSTS  
0704 0705 1411  
RT DISTORTION  
RADAR ECHOES  
RADIO ECHOES  
GACOBINI-ZINNER COMET  
3001 3005  
BT #CELESTIAL BODIES  
COMETS  
RT DRACONID METEORIDS  
GIANT STARS  
3001 3008  
BT #CELESTIAL BODIES  
STARS  
RT MAIN SEQUENCE STARS  
SUPERGIANT STARS  
GIBBERELLINS  
0409 1805  
BT FUNGI  
#PLANTS (BOTANY)  
#REGULATORS  
RT HEMOSTATICS  
GIBBS ADSORPTION EQUATION  
1902 3304  
RT ADSORPTION  
EQUATIONS  
GIBBS EQUATIONS  
INTERFACIAL TENSION  
GIBBS EQUATIONS  
1902 3304  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT GIBBS ADSORPTION EQUATION  
GIBBS FREE ENERGY  
GIBBS-HELMHOLTZ EQUATIONS  
PHASE RULE  
GIBBS FREE ENERGY  
1902 3304  
BT FREE ENERGY  
#THERMODYNAMIC PROPERTIES  
RT ENTHALPY

## GLANDS (ANATOMY)

GIBBS EQUATIONS  
GIBBS-HELMHOLTZ EQUATIONS  
MAYER PROBLEM  
GIBBS-HELMHOLTZ EQUATIONS  
1902  
RT ELECTRIC POTENTIAL  
ENTHALPY  
EQUATIONS  
FREE ENERGY  
GIBBS EQUATIONS  
GIBBS FREE ENERGY  
INTERNAL ENERGY  
#PRESSURE  
#TEMPERATURE  
GIBBS PHENOMENON  
1902  
RT DISCONTINUITY  
FOURIER SERIES  
SERIES (MATHEMATICS)  
GIBBALLESS INERTIAL NAVIGATION  
1403 1504 2102  
BT INERTIAL NAVIGATION  
#NAVIGATION  
RT #GYROSCOPES  
INERTIAL PLATFORMS  
NAVIGATION INSTRUMENTS  
GIBBALS  
1403 1504  
RT #BEARINGS  
CONTROL MOMENT GYROSCOPES  
FLUID ROTOR GYROSCOPES  
#GYROSCOPES  
PIVOTS  
STABILIZED PLATFORMS  
SUPPORTS  
SWIVELS  
GIRDER WEBS  
3202  
BT PLATES (STRUCTURAL MEMBERS)  
#STRUCTURAL MEMBERS  
WEBS (SUPPORTS)  
RT GIRDERS  
METAL PLATES  
GIRDERS  
1507 3203  
BT #STRUCTURAL MEMBERS  
RT BEAMS (SUPPORTS)  
BOX BEAMS  
GIRDER WEBS  
PLATES (STRUCTURAL MEMBERS)  
TRUSSES  
GIRDLES  
0402 0404  
RT BELTS  
PELVIS  
GLACIERS  
1303 1308  
BT CREVASSES  
EARTH RESOURCES  
#ICE  
RT GLACIOLOGY  
LAND ICE  
SEA ICE  
GLACIOLOGY  
1303 1308 1310  
BT #GEOLOGY  
RT GEOMORPHOLOGY  
GLACIERS  
HYDROGEOLOGY  
ISOSTASY  
GLANDS  
0404 0408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT GLANDS (ANATOMY)  
GLANDS (SEALS)  
PUMP SEALS  
GLANDS (ANATOMY)  
0404 0405 0408  
NT ADRENAL GLAND  
ENDOCRINE GLANDS  
GONADS  
HAMMARY GLANDS  
OVARIES  
PANCREAS  
PARATHYROID GLAND  
PINEAL GLAND  
PITUITARY GLAND  
PROSTATE GLAND  
SALIVARY GLANDS  
SEBACEOUS GLANDS

## GLANDS (SEALS)

SEX GLANDS  
TESTES  
THYMUS GLAND  
THYROID GLAND  
BT #ANATOMY  
RT ENDOCRINE SYSTEMS  
GASTROINTESTINAL SYSTEM  
GLANDS  
LIVER  
ORGANS  
#SECRECTIONS  
GLANDS (SEALS)  
0303 1501  
BT SEALS (STOPPERS)  
RT GLANDS  
O RING SEALS  
PACKINGS (SEALS)  
PUMP SEALS  
SEALING  
GLAZE  
2310  
RT BRIGHTNESS  
COMFORT  
DAYGLOW  
#ELECTROMAGNETIC RADIATION  
HUMAN FACTORS ENGINEERING  
ILLUMINATING  
LIGHT (VISIBLE RADIATION)  
LUMINANCE  
OPTICAL PROPERTIES  
RADIANCE  
SKY BRIGHTNESS  
SPECULAR REFLECTION  
VISIBILITY  
VISION  
GLASS  
1805  
RT BOROSILICATE GLASS  
GLASS FIBERS  
OBSIDIAN GLASS  
PYROCERAM (TRADEMARK)  
S GLASS  
SILICA GLASS  
VYCOR  
RT AMORPHOUS MATERIALS  
CERAMICS  
GLASS ELECTRODES  
GLASSWARE  
GRIFFITH CRACK  
MATERIALS  
MOLDAVITE  
OBSIDIAN  
OPTICAL PROPERTIES  
PORCELAIN  
SILICON DIOXIDE  
VITREOUS MATERIALS  
GLASS COATINGS  
1412 1802  
(COATINGS CONSISTING OF GLASS)  
BT #COATINGS  
RT GLAZES  
PROTECTIVE COATINGS  
SILICA GLASS  
GLASS ELECTRODES  
0903 1804  
BT #ELECTRODES  
RT #ELECTROCHEMISTRY  
GLASS  
ION EXCHANGING  
SILICA GLASS  
GLASS FIBERS  
1804 1809 3203  
UF FIBERGLASS  
BT #FIBERS  
GLASS  
SYNTHETIC FIBERS  
RT REINFORCING FIBERS  
SILICA GLASS  
VYCOR  
GLASSWARE  
1106 1801 1804  
RT BOROSILICATE GLASS  
BOTTLES  
BURETTES  
CONTAINERS  
FLASKS  
GLASS  
LABORATORY EQUIPMENT  
PIPETTES  
SILICA GLASS  
GLAUBER THEORY  
1902 3407

RT APPROXIMATION  
ELASTIC SCATTERING  
PONERANCHUK THEOREM  
THEORIES  
GLAUCOMA  
0405 0408  
BT EYE DISEASES  
RT INTRAOCULAR PRESSURE  
GLAUBERT COEFFICIENT  
USE #AERODYNAMIC FORCES  
MACH NUMBER  
GLAZES  
1802 1804  
BT #COATINGS  
FINISHES  
RT CERAMICS  
FRIT  
GLASS COATINGS  
PORCELAIN  
PROTECTIVE COATINGS  
GLIDE ANGLES  
USE GLIDE PATHS  
GLIDE LANDINGS  
0101 0102 0205 3105 3201  
RT HORIZONTAL SPACECRAFT LANDING  
BT #LANDING  
RT AIRCRAFT LANDING  
CRASH LANDING  
DITCHING (LANDING)  
PLANETARY LANDING  
SOFT LANDING  
SPACECRAFT LANDING  
WATER LANDING  
GLIDE PATHS  
0101 0102 0205 3006  
UF GLIDE ANGLES  
GLIDE SLOPES  
NULL REFERENCE GLIDE PATH  
BT FLIGHT PATHS  
SLOPES  
RT AIRCRAFT APPROACH SPACING  
APPROACH CONTROL  
APPROACH INDICATORS  
GLIDING  
INSTRUMENT APPROACH  
INSTRUMENT LANDING SYSTEMS  
TERMINAL GUIDANCE  
GLIDE SLOPES  
USE GLIDE PATHS  
#GLIDERS  
0102 0205 3105  
UF SAILPLANES  
RT ASSET GLIDERS  
BOOSTGLIDE VEHICLES  
FLEXIBLE WINGS  
HL-10 REENTRY VEHICLE  
HYPERSONIC GLIDERS  
INFLATABLE GLIDERS  
JANUS SPACECRAFT  
KA-6 SAILPLANES  
PARAGLIDERS  
PARAWINGS  
X-20 AIRCRAFT  
RT AEROSPACEPLANES  
AIRCRAFT  
GLIDING  
LIFTING REENTRY VEHICLES  
MILITARY AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
SAILS  
SAILWINGS  
SOARING  
SUBSONIC AIRCRAFT  
TOWED BODIES  
WINGED VEHICLES  
GLIDING  
0101 0201 0205 1504 3407  
RT BOOSTGLIDE VEHICLES  
DESCENT  
FLIGHT  
FLIGHT PATHS  
GLIDE PATHS  
#GLIDERS  
LIFT  
MOTION  
SOARING  
GLINT  
0705 2402  
RT ANGELS  
RADAR ECHOES  
SCINTILLATION

## NASA THESAURUS (ALPHABETICAL LISTING)

GLOBAL TRACKING NETWORK  
0709 1109 3006  
UF GLOTRAC (TRACKING NETWORK)  
BT #STATIONS  
TRACKING NETWORKS  
TRACKING STATIONS  
RT DATA ACQUISITION  
GROUND STATIONS  
MINITRACK SYSTEM  
OPTICAL TRACKING  
RADIO RELAY SYSTEMS  
RANGE AND RANGE RATE TRACKING  
SATELLITE TRACKING  
STADAN (SATELLITE TRACKING NETWORK)  
GLOBES  
1304 1308  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT EARTH (PLANET)  
LUMINAIRES  
#MAPS  
SPHERES  
GLOBULES  
1202  
RT FALLING SPHERES  
INTERFACIAL TENSION  
#LIQUIDS  
SPHERES  
GLOBULINS  
0403 0406 1808  
RT GAMMA GLOBULIN  
BT #PROTEINS  
GLOMERULUS  
0404 0405  
BT #ANATOMY  
BLOOD VESSELS  
CARDIOVASCULAR SYSTEM  
CIRCULATORY SYSTEM  
VASCULAR SYSTEM  
GLOSSARIES  
USE DICTIONARIES  
GLOSTER AW-650 AIRCRAFT  
USE AW 650 AIRCRAFT  
GLOSTER GA-5 AIRCRAFT  
USE GA-5 AIRCRAFT  
GLOTRAC (TRACKING NETWORK)  
USE GLOBAL TRACKING NETWORK  
GLOTTIS  
0404 0405  
BT LARYNX  
RT VOCAL CORDS  
GLOVES  
0508 1811  
BT #CLOTHING  
RT PROTECTIVE CLOTHING  
GLOW  
USE LUMINESCENCE  
GLOW DISCHARGES  
0605 2306 2402  
BT #ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
RT ELECTRIC ARCS  
ELECTRIC CORONA  
ELECTRODELESS DISCHARGES  
PARADAY DARK SPACE  
GAS DISCHARGES  
LIGHT SOURCES  
PLASMA RADIATION  
GLUCOSE  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
SUGARS  
GLUCOSIDES  
0403 1808  
UF GLUCOSIDES  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
RT NUCLEOSIDES  
GLUES  
0603 1507  
BT ADHESIVES  
RT PASTES  
SIZING MATERIALS  
GLUTAMATES  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#ESTERS  
RT GLUTAMIC ACID  
GLUTAMIC ACID  
0403 1808



# NASA THESAURUS (ALPHABETICAL LISTING)

BT #ACIDS  
#ALIPHATIC COMPOUNDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
RT GLUTAMATES  
GLUTAMINE  
0403 1808  
BT #ACIDS  
#ALIPHATIC COMPOUNDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
GLUTATHIONE  
0403 1808  
BT #ACIDS  
#ALIPHATIC COMPOUNDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
#PROTEINS  
GLYCERIDES  
1808  
BT #ALIPHATIC COMPOUNDS  
#ESTERS  
RT GLYCEROLS  
NITROGLYCERIN  
GLYCERINS  
USE GLYCEROLS  
GLYCEROLS  
1808 3302  
UF GLYCERINS  
BT #ALIPHATIC COMPOUNDS  
RT ALCOHOLS  
#CARBOHYDRATES  
GLYCERIDES  
LIPIDS  
#LIQUIDS  
NITROGLYCERIN  
TRIACETIN  
GLICINE  
0403 1808  
BT #ACIDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
GLYCOSIDS  
0403 0404 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
POLYSACCHARIDES  
GLYCOLS  
1808  
BT ALCOHOLS  
#ALIPHATIC COMPOUNDS  
#HYDROXYL COMPOUNDS  
GLYCOLYSIS  
0602  
BT #CHEMICAL REACTIONS  
DECOMPOSITION  
GLYCOSIDES  
USE GLUCOSIDES  
GNEISS  
1306  
BT ROCKS  
GNOTOBIOTICS  
0402 0405 0407 0504  
RT #MICROORGANISMS  
GOAL THEORY  
0408 0410  
RT GOALS  
THEORIES  
GOALS  
3406 3409  
RT ENGINEERING MANAGEMENT  
GOAL THEORY  
PROJECT PLANNING  
PURPOSES  
RESEARCH MANAGEMENT  
GOATS  
0402  
BT #ANIMALS  
MAMMALS  
VERTEBRATES  
GODDARD EXPERIMENT PACKAGE TELESCOPE  
USE PARTICLE TELESCOPES  
GOGGLES  
0508  
BT #CLOTHING  
RT EYE PROTECTION  
FLIGHT CLOTHING  
HELMETS  
PROTECTIVE CLOTHING  
SUNGLASSES  
GOLAY DETECTOR CELLS  
0301 1406

BT #MEASURING INSTRUMENTS  
RADIATION DETECTORS  
RADIATION MEASURING INSTRUMENTS  
RT ENERGY ABSORPTION FILMS  
PNEUMATIC EQUIPMENT  
#RADIATION ABSORPTION  
GOLD  
1703  
RT GOLD ISOTOPES  
GOLD 198  
BT #CHEMICAL ELEMENTS  
#METALS  
NOBLE METALS  
GOLD ALLOYS  
0603 1701  
BT #ALLOYS  
GOLD COATINGS  
0602 1701 1704  
UF GOLD PLATE  
BT #COATINGS  
METAL COATINGS  
RT NICKEL PLATE  
PROTECTIVE COATINGS  
GOLD ISOTOPES  
1703 2406  
RT GOLD 198  
BT #CHEMICAL ELEMENTS  
GOLD  
ISOTOPES  
NOBLE METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
GOLD PLATE  
USE GOLD COATINGS  
GOLD 198  
1703 2406  
BT #CHEMICAL ELEMENTS  
GOLD  
GOLD ISOTOPES  
ISOTOPES  
NOBLE METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
GOMPERTZ CURVES  
1902  
BT ANALYTIC GEOMETRY  
#CHARTS  
CURVES (GEOMETRY)  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
GRAPHS (CHARTS)  
S CURVES  
GOWADS  
0404 0411  
BT #ANATOMY  
ENDOCRINE GLANDS  
GLANDS (ANATOMY)  
SEX GLANDS  
#VISCERA  
RT #PHYSIOLOGICAL EFFECTS  
GONDOLAS  
0202 1103 3110  
RT AIRCRAFT COMPARTMENTS  
AIRSHIPS  
BALLOONS  
BASKETS  
GONIOMETERS  
1406 1902  
RT PHOTOGONIOMETERS  
RADIOGONIOMETERS  
BT #MEASURING INSTRUMENTS  
RT ANGLES (GEOMETRY)  
DIFFRACTOMETERS  
INTERFEROMETERS  
MACH-ZEHNDER INTERFEROMETERS  
MONOCHROMATORS  
OPTICAL MEASURING INSTRUMENTS  
REFRACTOMETERS  
SPECTROMETERS  
GORES  
0208 1303 1811  
RT FABRICS  
PARACHUTE FABRICS  
GOSS (SUPPORT SYSTEM)  
USE GROUND OPERATIONAL SUPPORT SYSTEM  
GOVERNMENT PROCUREMENT  
3406  
BT PROCUREMENT  
RT COMMODITIES  
CONTRACTS  
FEDERAL BUDGETS  
SERVICES

## GRAMMARS

GOVERNMENT/INDUSTRY RELATIONS  
3402 3404 3406  
RT CONTRACT NEGOTIATION  
CONTRACTORS  
CONTRACTS  
PROCUREMENT  
GOVERNMENTS  
3403  
RT CONSTITUTION  
CULTURE (SOCIAL SCIENCES)  
POLICIES  
POLITICS  
REGIMES  
VOTING  
GOVERNORS  
USE SPEED REGULATORS  
GRADE  
0101 1505 3406 1306  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ANGLES (GEOMETRY)  
#GRADIENTS  
LEVEL (HORIZONTAL)  
POSITION (TITLE)  
QUALITY  
SLOPES  
#GRADIENTS  
1902 2311  
RT ELECTRON DENSITY PROFILES  
POTENTIAL GRADIENTS  
PRESSURE GRADIENTS  
TEMPERATURE GRADIENTS  
THERMOCLINES  
BT ANGLES (GEOMETRY)  
#COMPOSITION (PROPERTY)  
CROSS SECTIONS  
DIFFERENCES  
#DISTRIBUTION (PROPERTY)  
DROP  
GRADE  
GRAVITY GRADIOMETERS  
ISOBARS (PRESSURE)  
ISOTHERMS  
LEVEL (HORIZONTAL)  
#OPTIMIZATION  
PROFILES  
SLOPES  
#VARIATIONS  
VECTOR ANALYSIS  
GRADIOMETERS  
USE MAGNETOMETERS  
GRADUATION  
USE CALIBRATING  
GRAEFF CALCULUS  
1902  
BT NUMERICAL ANALYSIS  
GRAFTING  
0404  
RT IMPLANTATION  
INSERTION  
GRAIN BOUNDARIES  
1704  
BT #BOUNDARIES  
RT CRYSTAL DISLOCATIONS  
INTERGRANULAR CORROSION  
INTERSTICES  
INTERSTITIALS  
TWINNING  
GRAINS  
0409 1407 1704 2601 2702 2809  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #CRYSTALS  
GRAINS (FOOD)  
GRANULAR MATERIALS  
PROPELLANT GRAINS  
GRAINS (FOOD)  
0409  
RT RICE  
BT EARTH RESOURCES  
RT ANGIOSPERMS  
GRAINS  
SEEDS  
GRAMMARS  
0702 3405  
RT #LANGUAGES  
SEMANTICS  
SYNTAX  
VOWELS  
WORDS (LANGUAGE)

# GRAND TOURS

## GRAND TOURS

3006 3009 3409  
BT FLYBY MISSIONS  
INTERPLANETARY FLIGHT  
RT MISSIONS  
OUTER PLANETS EXPLOREERS  
SPACE FLIGHT  
SPACE MISSIONS

## GRANITE

1306 1806  
BT EARTH RESOURCES  
IGNEOUS ROCKS  
ROCKS

## GRANTS

3402 3403  
RT APPROPRIATIONS  
BUDGETING  
CONTRACTS  
NASA PROGRAMS  
PATENTS  
SUBCONTRACTS

## GRANULAR MATERIALS

1704  
RT BRITTLE MATERIALS  
GRAINS  
LOW DENSITY MATERIALS  
MATERIALS  
PARTICLES  
PELLETS  
POWDER (PARTICLES)

## GRAPHIC ARTS

3405  
RT CHARTS  
DIAGRAMS  
DRAFTING (DRAWING)  
DRAWINGS  
ENGINEERING DRAWINGS  
IMAGERY  
INKS  
MOTION PICTURES  
PHOTOGRAPHY  
PROJECTION

## GRAPHIC EVALUATION AND REVIEW TECHNIQUES

## USE GERT

## GRAPHITE

1503 1805 1806 1807 2203  
NT PYROLYTIC GRAPHITE  
RT CARBON  
ELECTRODES  
LUBRICANTS  
MINERALS  
MODERATORS  
SINGLE CRYSTALS  
SOLID LUBRICANTS

## GRAPHITIZATION

0602 1808

RT HEAT TREATMENT

## GRAPHOLOGY

0408 0410  
BT PATTERN RECOGNITION  
RECOGNITION  
RT CHARACTER RECOGNITION  
GRAPHS (CHARTS)  
1902 3406  
UP POLARIZATION CHARTS  
NT GOMPERTZ CURVES  
MOLLIER DIAGRAM  
PATTERSON MAP

## BT CHARTS

RT CONFORMAL MAPPING  
CURVES  
HISTOGRAMS  
NETWORKS  
NOHOGRAPHS  
ORIGINS  
RECORDING INSTRUMENTS  
REPRESENTATIONS  
STATISTICAL ANALYSIS  
TREES (MATHEMATICS)

## GRASHOP NUMBER

1902 3303  
BT DIMENSIONLESS NUMBERS

## RT RATIOS

CONVECTION  
REYNOLDS NUMBER

## GRASSES

0409 1903  
NT REEDS (PLANTS)  
BT PLANTS (BOTANY)  
RT FARM CROPS  
SOD

## GRASSHOPPER HELICOPTER

0206  
BT GENERAL AVIATION AIRCRAFT  
HELICOPTERS  
LIGHT AIRCRAFT  
ROTARY WING AIRCRAFT  
ROTORCRAFT AIRCRAFT  
STOL AIRCRAFT

## GRASSHOPPERS

0402  
BT ANIMALS  
ARTHROPODS  
INSECTS  
INVERTEBRATES

## GRASSMANN ALGEBRA

USE VECTOR SPACES  
GRATINGS  
2310  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT GRATINGS (SPECTRA)  
INTERFERENCE GRATING  
OPTICAL FILTERS

## GRATINGS (SPECTRA)

2401 2601  
UP DIFFRACTION GRATINGS  
NT ECHELETTE GRATINGS  
RT FRESNEL DIFFRACTION  
GRATINGS  
OPTICAL FILTERS  
ROWLAND CIRCLES

## GRAVELS

1805 1806  
BT SOILS  
RT AGGREGATES  
GRIT  
SANDS  
SEDIMENTS

## GRAVIMETERS

1309 1406  
BT MEASURING INSTRUMENTS  
RT ACCELEROMETERS  
DENSITOMETERS  
GEODESY  
GEOPHYSICS  
GRAVIMETRY  
GRAVITATION  
MICRODENSITOMETERS

## GRAVIMETRY

1309 1406  
RT ACCELERATION  
ACCELEROMETERS  
GEOLOGY  
GEOPHYSICS  
GRAVIMETERS  
GRAVITATIONAL FIELDS  
MEASUREMENT  
QUANTITATIVE ANALYSIS

## GRAVIRECEPTORS

0404 0408 1309  
NT OTOLITH ORGANS  
BT ANATOMY  
SENSE ORGANS  
RT OCULOGRAVIC ILLUSIONS  
VERTICAL PERCEPTION

## GRAVITATION

1307 1309  
UP GRAVITY  
NT ARTIFICIAL GRAVITY  
GRAVITY ANOMALIES  
HIGH GRAVITY ENVIRONMENTS  
LUNAR GRAVITATION  
PLANETARY GRAVITATION  
REDUCED GRAVITY  
SOLAR GRAVITATION  
RT ANTIGRAVITY  
DRAG  
ENVIRONMENTS  
GRAVIMETERS  
GRAVITATION THEORY  
GRAVITATIONAL CONSTANT  
GRAVITATIONAL EFFECTS  
GRAVITATIONAL FIELDS  
GRAVITATIONAL WAVES  
GRAVITY GRADIENTS  
ISOSTASY  
LUNAR GRAVITY SIMULATOR  
PENDULUMS  
ROCHE LIMIT  
SIMILITUDE LAW  
SPACECRAFT ENVIRONMENTS

# NASA THESAURUS (ALPHABETICAL LISTING)

TERMINAL VELOCITY  
WEIGHT (MASS)  
WEIGHTLESSNESS  
GRAVITATION THEORY  
1308 1309  
RT GRAVITATION  
GRAVITATIONAL FIELDS  
GRAVITONS  
THEORIES  
GRAVITATIONAL COLLAPSE  
1309 2502  
RT ASTROPHYSICS  
QUASARS  
RELATIVISTIC PLASMAS  
SUPERNOVAE  
GRAVITATIONAL CONSTANT  
1309 1902  
BT #CONSTANTS  
RT GRAVITATION  
GRAVITATIONAL FIELDS  
GRAVITATIONAL EFFECTS  
0401 0408 1309  
RT ACCELERATION STRESSES (PHYSIOLOGY)  
ACCELERATION TOLERANCE  
EFFECTS  
GEOTROPISM  
GRAVITATION  
GRAVITATIONAL WAVES  
SWINGBY TECHNIQUE  
WEIGHTLESSNESS  
GRAVITATIONAL FIELDS  
1309  
UP GRAVITATIONAL POTENTIAL  
GRAVITATIONAL RADIATION  
RT CENTER OF GRAVITY  
EARTH-MOON SYSTEM  
FIELD STRENGTH  
FIELD THEORY (PHYSICS)  
FIELDS  
GEOPOTENTIAL  
GEOPOTENTIAL HEIGHT  
GRAVIMETRY  
GRAVITATION  
GRAVITATION THEORY  
GRAVITATIONAL CONSTANT  
GRAVITATIONAL WAVES  
GRAVITY ANOMALIES  
MULTIPOLAR FIELDS  
SATELLITE PERTURBATION  
SCHWARZSCHILD METRIC  
GRAVITATIONAL POTENTIAL  
USE GRAVITATIONAL FIELDS  
GRAVITATIONAL RADIATION  
USE GRAVITATIONAL FIELDS  
GRAVITATIONAL WAVES  
1202 1309  
RT CELESTIAL BODIES  
CELESTIAL MECHANICS  
EARTH-MOON SYSTEM  
GRAVITATION  
GRAVITATIONAL EFFECTS  
GRAVITATIONAL FIELDS  
GRAVITY WAVES  
WAVES  
GRAVITONS  
2401  
BT ELEMENTARY PARTICLES  
RT ATOMIC STRUCTURE  
GRAVITATION THEORY  
GRAVITY  
USE GRAVITATION  
GRAVITY ANOMALIES  
1307  
BT GRAVITATION  
RT GRAVITATIONAL FIELDS  
HASCOWS  
GRAVITY GRADIENT SATELLITES  
1309 3107  
NT APPLICATIONS TECHNOLOGY SATELLITES  
ATS 1  
ATS 2  
ATS 3  
ATS 4  
ATS 5  
ATS 6  
ATS 7  
ATS 8  
ORBITAL CAL SATELLITE  
BT ARTIFICIAL SATELLITES  
#SATELLITES  
RT ARTIFICIAL GRAVITY  
EARTH SATELLITES

# NASA THESAURUS (ALPHABETICAL LISTING)

EXPULSION  
#MANNED SPACECRAFT  
OV-1 SATELLITES  
OV-2 SATELLITES  
OV-3 SATELLITES  
OV-4 SATELLITES  
OV-5 SATELLITES  
SATELLITE ATTITUDE CONTROL  
SATELLITE CONTROL  
SPIN REDUCTION  
#UNMANNED SPACECRAFT  
GRAVITY GRADIENTMETERS  
1406  
BT #MEASURING INSTRUMENTS  
RT #GRADIENTS  
GRAVITATION  
GRAVITY WAVES  
1202 1309  
NT BAROCLINIC WAVES  
BT CAPILLARY WAVES  
#ELASTIC WAVES  
#SURFACE WAVES  
RT GRAVITATIONAL WAVES  
RIPPLES  
WATER WAVES  
#WIND (METEOROLOGY)  
GRAY GAS  
0603 2311  
BT #GASES  
RT NONGRAY ATMOSPHERES  
#RADIATION ABSORPTION  
RAYLEIGH SCATTERING  
THERMAL ABSORPTION  
GREASES  
0602 1503  
RT PAST  
LUBRICANTS  
OILS  
THICKENERS (MATERIALS)  
GREAT BRITAIN  
1305  
BT #ISLANDS  
RT NATIONS  
GREAT CIRCLES  
1303 1305  
BT CIRCLES (GEOMETRY)  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT FLIGHT OPTIMIZATION  
FLIGHT PATHS  
GROUND TRACKS  
#TRAJECTORIES  
GREAT POLAR CAPS  
USE POLAR CAPS  
GREB 5 SATELLITE  
2902 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GREB SATELLITES  
#SATELLITES  
RT SOLAR X-RAYS  
GREB SATELLITES  
2902 3107  
UP GALACTIC RADIATION EXP BACKGROUND  
SATS  
NT GREB 5 SATELLITE  
BT ARTIFICIAL SATELLITES  
#SATELLITES  
GREECE  
1305  
RT EUROPE  
GREEN FUNCTION  
1902  
UP GREEN THEOREM  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS  
FIELD THEORY (ALGEBRA)  
FIELD THEORY (PHYSICS)  
HALF PLANES  
HALF SPACES  
JACOBI INTEGRAL  
MANY BODY PROBLEM  
GREEN THEOREM  
USE GREEN FUNCTION  
GREENHOUSE EFFECT  
1301 1302 2001  
RT ATMOSPHERIC HEAT BUDGET  
#ATMOSPHERIC RADIATION  
#EARTH ATMOSPHERE  
EFFECTS

INSOLATION  
TERRESTRIAL RADIATION  
THERMAL RADIATION  
JANSENLAND  
1305  
BT #ISLANDS  
RT ARCTIC OCEAN  
DENMARK  
GRENADES  
3302 3401  
RT AMMUNITION  
INCENDIARY AMMUNITION  
PYROTECHNICS  
GRIDS  
0903 1303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT #COORDINATES  
IONIZERS  
MESH  
TUBE GRIDS  
TURNSTILE ANTENNAS  
WIRE GRID LENSES  
GRIFFITH CRACK  
1704  
BT CRACK PROPAGATION  
FRACTURE MECHANICS  
GLASS  
THEORIES  
GRIFFON AIRCRAFT  
USE WORD 1500 AIRCRAFT  
GRIGNARD REACTIONS  
0602 1703 1704  
BT #CHEMICAL REACTIONS  
RT CATALYSTS  
GRINDING  
1504 1704 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT GRINDING (COMMINUTION)  
GRINDING (MATERIAL REMOVAL)  
GRINDING (COMMINUTION)  
1504 3404  
UP PULVERIZING  
RT COMMINUTION  
BT ATOMIZING  
COMPOUNDING  
CRUSHING  
DISINTEGRATION  
GRINDING  
GRINDING (MATERIAL REMOVAL)  
GRINDING MILLS  
MIXING  
GRINDING (MATERIAL REMOVAL)  
1504 1704 3404  
NT METAL GRINDING  
RT ABRASION  
COUNTERSINKING  
CUTTING  
GRINDING  
GRINDING (COMMINUTION)  
GRINDING MACHINES  
GROOVING  
#MACHINING  
METAL CUTTING  
PLANING  
#POLISHING  
SCARFING  
WEAR  
GRINDING MACHINES  
1504  
UP ULTRASONIC GRINDING MACHINES  
BT MACHINE TOOLS  
#TOOLS  
RT GRINDING (MATERIAL REMOVAL)  
LATHES  
MILLING MACHINES  
SHAPERS  
GRINDING MILLS  
1504  
RT ATOMIZERS  
ATOMIZING  
COMMINUTION  
CRUSHERS  
GRINDING (COMMINUTION)  
IMPACTORS  
NIYZERS  
GRIT  
1504 2601  
RT ABRASIVES

## GROUND EFFECT MACHINES

GRAVELS  
#PARTICLES  
SANDS  
SEDIMENTS  
GROOVES  
1504 1902  
NT V GROOVES  
RT CORRUGATING  
GROOVING  
GROOVING  
1504  
UP FLUTING  
RT CUTTING  
GRINDING (MATERIAL REMOVAL)  
GROOVES  
KNURLING  
#MACHINING  
MILLING (MACHINING)  
STRIATION  
GROUND-AIR-GROUND COMMUNICATIONS  
0702 0706 1102  
BT #COMMUNICATING  
#TELECOMMUNICATION  
RT AIR TRAFFIC CONTROL  
AIRCRAFT COMMUNICATION  
COMMUNICATION SATELLITES  
OPTICAL COMMUNICATION  
RADIO COMMUNICATION  
SPACECRAFT COMMUNICATION  
VOICE COMMUNICATION  
WIRELESS COMMUNICATIONS  
#GROUND BASED CONTROL  
0707 1102  
NT AIR TRAFFIC CONTROL  
RADAR APPROACH CONTROL  
RT AIRCRAFT APPROACH SPACING  
AIRCRAFT CONTROL  
AIRPORT SURFACE DETECTION EQUIPMENT  
AIRPORT TOWERS  
APPROACH  
APPROACH CONTROL  
#AUTOMATIC CONTROL  
CONTROL  
#FLIGHT CONTROL  
FLY BY WIRE CONTROL  
GROUND STATIONS  
#GUIDANCE (MOTION)  
INSTRUMENT LANDING SYSTEMS  
INTEGRATED MISSION CONTROL CENTER  
#LANDING AIDS  
MISSILE CONTROL  
RADAR NAVIGATION  
RADIO CONTROL  
REMOTE CONTROL  
#SPACECRAFT CONTROL  
SPACECRAFT GUIDANCE  
#TRAFFIC CONTROL  
GROUND CREWS  
1102 1104  
BT #PERSONNEL  
RT GROUND HANDLING  
MAINTENANCE  
GROUND EFFECT  
0104 0205  
UP GROUND RESONANCE  
RT AERODYNAMIC DRAG  
AERODYNAMICS  
CUSHIONS  
DOWNWASH  
DRAG  
EFFECTS  
GROUND EFFECT MACHINES  
JET BLAST EFFECTS  
LIFT  
PERIPHERAL JET FLOW  
#WAKES  
GROUND EFFECT MACHINES  
0104 0205  
UP AIR CUSHION VEHICLES  
DTMB-111 GROUND EFFECT MACHINE  
DTMB-430 GROUND EFFECT MACHINE  
HOVERCRAFT  
NT CUSHIONCRAFT GROUND EFFECT MACHINE  
GETOL AIRCRAFT  
HOVERCRAFT GROUND EFFECT MACHINES  
KAG-3 GROUND EFFECT MACHINE  
SAAB 401 AIR CUSHION VEHICLE  
VA-3 GROUND EFFECT MACHINE  
WESTLAND GROUND EFFECT MACHINES  
RT AIRCRAFT  
#COMMERCIAL AIRCRAFT  
FLIGHT VEHICLES

## GROUND HANDLING

FLYING PLATFORMS  
GROUND EFFECT  
HOVERING  
LIFTING ROTORS  
MILITARY AIRCRAFT  
PASSENGER AIRCRAFT  
PERIPHERAL JET FLOW  
RAPID TRANSIT SYSTEMS  
RESEARCH AIRCRAFT  
SUBSONIC AIRCRAFT  
\*SURFACE VEHICLES  
TRANSPORT VEHICLES  
\*V/STOL AIRCRAFT  
VEHICLES  
WATER TAKEOFF AND LANDING AIRCRAFT

## GROUND HANDLING

0702 1102 1104  
BT MATERIALS HANDLING  
RT AIR CARGO  
BAGGAGE  
FACILITIES  
GROUND CREWS  
HANGARS  
MOBILE LOUNGES  
TRACTORS  
TRUCKS

## GROUND OPERATIONAL SUPPORT SYSTEM

0702 1102 1103 1104  
UF GOSS (SUPPORT SYSTEM)  
BT GROUND SUPPORT EQUIPMENT  
SUPPORT SYSTEMS  
\*WEAPON SYSTEMS

## GROUND RESONANCE

USE GROUND EFFECT

## GROUND RUN-UP

USE ENGINE TESTS  
\*GROUND TESTS

## GROUND SPEED

0709 1109 1406 2103  
BT \*RATES (PER TIME)  
VELOCITY

## GROUND SQUIRRELS

0402  
BT \*ANIMALS  
MAMMALS  
RODENTS  
VERTEBRATES

## GROUND STATE

2311 2401  
BT ENERGY LEVELS  
\*LEVEL (QUANTITY)  
RT ATOMIC ENERGY LEVELS  
ATOMIC THEORY  
ELECTRON STATES  
QUANTUM THEORY

## GROUND STATIONS

0702 1102 1104 1109  
NT DEEP SPACE INSTRUMENTATION FACILITY  
INTEGRATED MISSION CONTROL CENTER  
POLYSTATION DOPPLER TRACKING SYSTEM  
SPACE DETECTION AND TRACKING SYSTEM  
STADAN (SATELLITE TRACKING NETWORK)

## GROUND STATIONS

BT DATA ACQUISITION  
GLOBAL TRACKING NETWORK  
\*GROUND BASED CONTROL  
HANGARS  
JODRELL BANK OBSERVATORY  
TRACKING STATIONS  
WEATHER STATIONS

## GROUND SUPPORT EQUIPMENT

1103 1106 1108 1406  
NT GROUND OPERATIONAL SUPPORT SYSTEM  
RT AIR TRAFFIC CONTROL  
AIRCRAFT MAINTENANCE  
AIRPORT PLANNING  
\*AUXILIARY POWER SOURCES  
BALLISTIC CAMERAS  
CAPE KENNEDY LAUNCH COMPLEX  
COMMAND AND CONTROL  
COMMAND GUIDANCE  
CRAWLER TRACTORS  
EQUIPMENT  
\*FLIGHT CONTROL  
GANTRY CRANES  
GROUND SUPPORT SYSTEMS  
\*HANDLING EQUIPMENT  
\*LANDING AIDS

LAUNCHING BASES  
LAUNCHING PADS  
LAUNCHING SITES  
MAINTENANCE  
MATERIALS  
MISSILE LAUNCHERS  
MISSILE STORAGE  
\*MISSILES  
ORDNANCE  
PROPELLANT STORAGE  
RADIO TELEMETRY  
REFUELING  
ROCKET LAUNCHERS  
SATELLITE GROUND SUPPORT  
SPACECRAFT  
STORABLE PROPELLANTS  
TEST EQUIPMENT  
TRACKING NETWORKS  
TRACKING STATIONS

## GROUND SUPPORT SYSTEMS

1103 1106 1108 1406 3102  
BT SUPPORT SYSTEMS  
RT GROUND SUPPORT EQUIPMENT

## GROUND TESTS

1106 1107 1108 1110  
UF GROUND RUN-UP  
NT COLD FLOW TESTS  
PRELAUNCH TESTS  
STATIC FIRING  
RT \*CAPTIVE TESTS  
ELECTRIC EQUIPMENT TESTS  
ENGINE TESTS  
FLIGHT TESTS  
FULL SCALE TESTS  
MISSILE TESTS  
PREFIRING TESTS  
PREFLIGHT OPERATIONS  
SPACE ELECTRIC ROCKET TESTS  
STABILITY TESTS  
STATIC TESTS  
TEST FIRING  
TESTS  
WING FLOW METHOD TESTS

## GROUND-TO-AIR MISSILES

USE SURFACE TO AIR MISSILES

## GROUND TRACKS

1102 1109 3006  
RT FLIGHT PATHS  
GREAT CIRCLES  
\*ORBITS  
PATHS  
TRACKS

## GROUND TRUTH

1401  
RT AERIAL PHOTOGRAPHY  
AERIAL RECONNAISSANCE  
\*IMAGERY  
PHOTOINTERPRETATION  
PHOTORECONNAISSANCE  
SPECTROPHOTOGRAPHY

## GROUND WATER

1306 1305  
BT WATER  
RT EARTH RESOURCES  
POTABLE WATER  
WATER FLOW  
WELLS

## GROUND WAVE PROPAGATION

0710 2402  
BT \*TRANSMISSION  
WAVE PROPAGATION  
RT RADIO WAVES  
SELECTIVE FADING  
SKY WAVES

## GROUND WIND

0101 0201 1110 1203 1308 2003 3009  
BT \*WIND (METEOROLOGY)  
RT AIR CURRENTS  
ATMOSPHERIC CIRCULATION  
CYCLONES  
GUST LOADS  
GUSTS  
MONSOONS  
SQUALLS  
STORMS. (METEOROLOGY)  
TORNADOES  
WIND DIRECTION  
WIND EFFECTS  
WIND PRESSURE  
WIND PROFILES  
WIND SHEAR  
WIND VELOCITY

## NASA THESAURUS (ALPHABETICAL LISTING)

GROUP 1A COMPOUNDS  
USE ALKALI METAL COMPOUNDS  
GROUP 2A COMPOUNDS  
USE ALKALINE EARTH COMPOUNDS  
GROUP 3A COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*ALUMINUM COMPOUNDS  
\*BORON COMPOUNDS  
\*GALLIUM COMPOUNDS  
\*INDIUM COMPOUNDS  
GROUP 4A COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*CARBON COMPOUNDS  
\*GERMANIUM COMPOUNDS  
LEAD COMPOUNDS  
\*SILICON COMPOUNDS  
\*TIN COMPOUNDS  
GROUP 5A COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*ANTIMONY COMPOUNDS  
\*ARSENIC COMPOUNDS  
\*BISMUTH COMPOUNDS  
\*NITROGEN COMPOUNDS  
\*PHOSPHORUS COMPOUNDS  
GROUP 6A COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*CHALCOGENIDES  
POLONIUM COMPOUNDS  
\*SELENIUM COMPOUNDS  
\*SULFUR COMPOUNDS  
\*TELLURIUM COMPOUNDS  
GROUP 7A COMPOUNDS  
USE \*HALOGEN COMPOUNDS  
GROUP 1B COMPOUNDS  
0603 1804  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*COPPER COMPOUNDS  
NOBLE METALS  
\*SILVER COMPOUNDS  
GROUP 2B COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*CADMIUM COMPOUNDS  
\*MERCURY COMPOUNDS  
\*ZINC COMPOUNDS  
GROUP 3B COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*ACTINIDE SERIES COMPOUNDS  
\*RARE EARTH COMPOUNDS  
SCANDIUM COMPOUNDS  
YTTRIUM COMPOUNDS  
GROUP 4B COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*HAFNIUM COMPOUNDS  
\*TITANIUM COMPOUNDS  
\*ZIRCONIUM COMPOUNDS  
GROUP 5B COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*NIOBIUM COMPOUNDS  
TANTALUM COMPOUNDS  
\*VANADIUM COMPOUNDS  
GROUP 6B COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT \*CHROMIUM COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

#MOLYBDENUM COMPOUNDS  
#TUNGSTEN COMPOUNDS  
GROUP 7B COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #MANGANESE COMPOUNDS  
RHENIUM COMPOUNDS  
TECHNETIUM COMPOUNDS  
GROUP BEHAVIOR  
USE GROUP DYNAMICS  
GROUP 8 COMPOUNDS  
0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COBALT COMPOUNDS  
#IRON COMPOUNDS  
NICKEL COMPOUNDS  
OSMIUM COMPOUNDS  
PLATINUM COMPOUNDS  
RHODIUM COMPOUNDS  
GROUP DYNAMICS  
0408 0410 3406  
UF. GROUP BEHAVIOR  
RT DEPENDENCE  
PROBLEM SOLVING  
SOCIOLOGY  
GROUP THEORY  
1902  
NT AUTOMORPHISMS  
HOMOMORPHISMS  
MONOIDS  
SUBGROUPS  
BT #ALGEBRA  
RT CHIRAL DYNAMICS  
FIBERS (MATHEMATICS)  
LIE GROUPS  
THEORIES  
GROUP VELOCITY  
0710 2311 2402  
BT #RATES (PER TIME)  
VELOCITY  
RT BEAT FREQUENCIES  
HARMONIC MOTION  
PHASE VELOCITY  
PROPAGATION VELOCITY  
QUANTUM MECHANICS  
WAVE PROPAGATION  
GROUPS  
0803 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CATEGORIES  
CLASSES  
SUBDIVISIONS  
GROUT  
1805 3202 3203  
RT AMORPHOUS MATERIALS  
CEMENTS  
CLAYS  
CONCRETES  
CONSTRUCTION MATERIALS  
MORTARS (MATERIAL)  
MUD  
PLASTERS  
#GROWTH  
0404 1704 2601 3406 3407 0602  
UF HYPERTROPHY  
MATURING  
NT CROP GROWTH  
CRYSTAL GROWTH  
CZOCHEBSKI METHOD  
EPITAXY  
HYDROTHERMAL CRYSTAL GROWTH  
TRAVELING SOLVENT METHOD  
VERNEUIL PROCESS  
ACCUMULATIONS  
RT DEVELOPMENT  
#EVOLUTION (DEVELOPMENT)  
FORMATION  
GERMINATION  
INCREASING  
INFLATING  
SHRINKAGE  
SINTERING  
SWELLING  
TIMBER VIGOR  
TRENDS  
VIABILITY

WARPAGE  
YOUTH  
GRUMMAN AIRCRAFT  
0201 0207  
UF GRUMMAN MILITARY AIRCRAFT  
NT A-6 AIRCRAFT  
C-2 AIRCRAFT  
E-2 AIRCRAFT  
F-9 AIRCRAFT  
F-14 AIRCRAFT  
F-111 AIRCRAFT  
JETSTREAM AIRCRAFT  
OV-1 AIRCRAFT  
RT AIRCRAFT  
GRUMMAN MILITARY AIRCRAFT  
USE GRUMMAN AIRCRAFT  
GRUMMAN OV-1C AIRCRAFT  
USE OV-1 AIRCRAFT  
GRUNEISEN CONSTANT  
1902 3304  
BT #CONSTANTS  
RT COMPRESSIBILITY  
SPECIFIC HEAT  
THERMAL EXPANSION  
GUANETHIDINE  
0403 0408 1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
DIAMINES  
GUANIDINES  
#HETEROCYCLIC COMPOUNDS  
GUANIDINES  
1808  
NT GUANETHIDINE  
TRIAMINO GUANIDINIUM AZIDE  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
DIAMINES  
RT PERFLUOROGUANIDINE  
GUANINES  
0402 0403 1808  
BT #PUNGICIDES  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
#PROTEINS  
#PURINES  
XANTHINES  
GUARANI AIRCRAFT  
USE DINFIA FA AIRCRAFT  
GUARANI 1 AIRCRAFT  
USE DINFIA FA AIRCRAFT  
GUARDS (SHIELDS)  
1505 3401 3407  
RT BARRIERS  
COVERINGS  
HOUSINGS  
SAFETY DEVICES  
SAFETY MANAGEMENT  
#SHIELDING  
GUERRILLAS  
3401 3403  
BT WARFARE  
RT ARMED FORCES  
INFILTRATION  
#GUIDANCE (MOTION)  
2102 3406  
UF GUIDANCE STABILITY  
AIRCRAFT GUIDANCE  
COMMAND GUIDANCE  
INERTIAL GUIDANCE  
INJECTION GUIDANCE  
MAP MATCHING GUIDANCE  
MIDCOURSE GUIDANCE  
REENTRY GUIDANCE  
RENDEZVOUS GUIDANCE  
SATELLITE GUIDANCE  
SPACECRAFT GUIDANCE  
STANDARDIZED SPACE GUIDANCE  
STRAPDOWN INERTIAL GUIDANCE  
TERMINAL GUIDANCE  
RT AIR NAVIGATION  
APPROACH  
ASCENT TRAJECTORIES  
ASTRONOMICS  
#AUTOMATIC CONTROL  
AVIONICS  
#CONTROL SURFACES  
#FLIGHT CONTROL  
FLIGHT PATHS  
#GROUND BASED CONTROL  
GUIDANCE SENSORS  
HOMING

## GUN LAUNCHERS

HOMING DEVICES  
IMPACT PREDICTION  
#LANDING  
MANUAL CONTROL  
#MISSILES  
#NAVIGATION  
PLATFORMS  
POINTING CONTROL SYSTEMS  
RADIO NAVIGATION  
REMOTE CONTROL  
STATIONKEEPING  
SYSTEMS  
TRAJECTORY CONTROL  
VISUAL CONTROL  
GUIDANCE SENSORS  
0903 2309  
RT #ATTITUDE CONTROL  
#GUIDANCE (MOTION)  
IMAGE DISSECTOR TUBES  
OPTICAL MEASURING INSTRUMENTS  
SENSORS  
SOLAR SENSORS  
#SPACECRAFT INSTRUMENTS  
STAR TRACKERS  
GUIDANCE STABILITY  
USE CONTROL STABILITY  
#GUIDANCE (MOTION)  
GUIDE VANES  
0101 0104  
UF JETAVATORS  
NT JET VANES  
BT #CONTROL SURFACES  
#VANES  
RT #AIRFOILS  
HYDROFOILS  
THRUST VECTOR CONTROL  
GUIDED MISSILE SUBMARINES  
3401  
UF POLARIS SUBMARINES  
BT SHIPS  
SUBMARINES  
UNDERWATER VEHICLES  
#WATER VEHICLES  
RT FLEET BALLISTIC MISSILES  
POSEIDON MISSILES  
GUIDED MISSILES  
USE #MISSILES  
GUINEA  
1305  
RT AFRICA  
NATIONS  
GUINEA PIGS  
0402 1106  
BT #ANIMALS  
MAMMALS  
RODENTS  
VERTEBRATES  
GULF STREAM  
1310  
RT ATLANTIC OCEAN  
CARIBBEAN SEA  
GULFS  
1310 1306  
RT BAYS (TOPOGRAPHIC FEATURES)  
TOPOGRAPHY  
GULLIVER PROGRAM  
0401 3409  
BT #PROGRAMS  
GUN VOLCANIZATES  
USE VOLCANIZED ELASTOMERS  
GUMBEL THEORY  
USE #RANGE (EXTREMES)  
GUNS (SUBSTANCES)  
0403 0404 1805  
NT ROSIN  
RT CHITIN  
POLYSACCHARIDES  
#RUBBER  
TARS  
GUN LAUNCHERS  
1104 3302  
(ORDNANCE DEVICES FOR FIRING MISSILES  
AND ROCKETS WITH INITIAL ATTITUDE  
CONTROL)  
BT #LAUNCHERS  
RT ARTILLERY  
BARRELS  
GUNFIRE  
HOWITZERS  
HYPERVELOCITY LAUNCHERS  
MISSILE LAUNCHERS  
ROCKET CATAPULTS

## GUN PROPELLANTS

ROCKET LAUNCHERS  
SABOT PROJECTILES

GUN PROPELLANTS  
0603 3302  
UF GUNPOWDER  
BT #PROPELLANTS  
RT EXPLOSIVES  
GUNS (ORDNANCE)

GUN TURRETS  
3302  
RT CUPOLAS  
GUNS (ORDNANCE)  
TURRET

GUNFIRE  
0408 3302 3401  
RT ARTILLERY FIRE  
FIRE CONTROL  
#FIRING (IGNITING)  
GUN LAUNCHERS  
GUNS (ORDNANCE)  
PROJECTILES

GUN EFFECT  
2309 2602 2603  
RT EFFECTS  
NEGATIVE CONDUCTANCE  
NEGATIVE RESISTANCE DEVICES  
SEMICONDUCTOR DEVICES  
SEMICONDUCTOR LASERS

GUNNERY TRAINING  
0502 3401  
BT #EDUCATION

GUNPOWDER  
USE GUN PROPELLANTS

GUNS  
1504 2403 2501 3401  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CROSSED FIELD GUNS  
ELECTRON GUNS  
GAS GUNS  
GUNS (ORDNANCE)  
HYPERVELOCITY GUNS  
PLASMA GUNS

GUNS (ORDNANCE)  
3401  
UF CANNONS  
NT ARTILLERY  
HOWITZERS  
RIFLES  
BT #WEAPONS  
RT AMMUNITION  
EXPLOSIVES  
GUN PROPELLANTS  
GUN TURRETS  
GUNFIRE  
GUNS  
HEAT OF COMBUSTION  
HYPERVELOCITY GUNS  
INCENDIARY AMMUNITION  
PROJECTILES  
#PROPELLANTS  
SABOT PROJECTILES

GUST ALLEVIATORS  
0102 0202  
RT DEFLECTORS  
GUST LOADS  
GUSTS  
SPOILERS  
TURBULENT FLOW

GUST LOADS  
0102 2003 2311  
BT #AERODYNAMIC FORCES  
AERODYNAMIC LOADS  
DYNAMIC LOADS  
#LOADS (FORCES)  
RANDOM LOADS  
TRANSIENT LOADS  
RT ATMOSPHERIC TURBULENCE  
BLAST LOADS  
GROUND WIND  
GUST ALLEVIATORS  
GUSTS  
WIND PRESSURE  
WING LOADING

GUSTATORY PERCEPTION  
USE TASTE

GUSTS  
1301 2003  
BT ATMOSPHERIC TURBULENCE  
#TURBULENCE  
#WIND (METEOROLOGY)

BT CLEAR AIR TURBULENCE  
GROUND WIND  
GUST ALLEVIATORS  
GUST LOADS  
#STORMS  
STORMS (METEOROLOGY)

GUTENBERG ZONE  
1306 1308  
BT #MODELS  
#REGIONS  
RT ACOUSTIC VELOCITY  
SEISMIC WAVES

GUY WIRES  
3203  
UF STAYS  
BT #WIRE  
RT ANCHORS (FASTENERS)  
#STRUCTURAL MEMBERS

GY-80 AIRCRAFT  
0201 0204  
UF HORIZON AIRCRAFT  
SUD AVIATION GY-80 AIRCRAFT  
BT GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
#SUD AVIATION AIRCRAFT

GYMNASTICS  
USE EXERCISE (PHYSIOLOGY)

GYNECOLOGY  
0404 0405  
BT #MEDICAL SCIENCE

GYPSON  
0601 1806  
BT PLASTERS  
RT CALCIUM  
CHALK  
ROCKS  
SEDIMENTARY ROCKS  
SULFATES

#GYRATION  
2308  
NT AUTOROTATION  
EARTH ROTATION  
LARMOR PRECESSION  
MOLECULAR ROTATION  
PRECESSION  
PROTON PRECESSION  
REVOLVING  
ROTATION  
SATELLITE ROTATION  
SOLAR ROTATION  
STELLAR ROTATION  
RT ANGULAR VELOCITY  
MOTION  
SPIN DYNAMICS

GYRATORS  
0902 0904  
UF TELLEGEN THEORY  
NT MICROWAVE FILTERS  
BT #MICROWAVE EQUIPMENT  
RT FERRITES  
MICROWAVE SWITCHING  
NETWORK ANALYSIS  
NETWORKS  
PHASE SHIFT CIRCUITS  
WAVEGUIDES

GYRO HORIZONS  
1403 2102 2308  
BT #AIRCRAFT INSTRUMENTS  
ATTITUDE GYROS  
ATTITUDE INDICATORS  
#DISPLAY DEVICES  
#FLIGHT INSTRUMENTS  
#GYROSCOPES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
RT HORIZON

GYROCOMPASSES  
1403 1406 2102  
BT #AIRCRAFT INSTRUMENTS  
COMPASSES  
#GYROSCOPES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
#NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
RT MAGNETIC COMPASSES  
RADIO DIRECTION FINDERS

GYRODYNE AIRCRAFT  
0206 0207  
NT QH-50 HELICOPTER

## NASA THESAURUS (ALPHABETICAL LISTING)

BT AIRCRAFT  
GYRODYNE DSH-3 HELICOPTER  
USE QH-50 HELICOPTER  
GYRODYNE MILITARY AIRCRAFT  
USE QH-50 HELICOPTER  
GYROFREQUENCY  
2307 2403 2405  
BT GYROMAGNETISM  
#MAGNETIC PROPERTIES  
CHARGED PARTICLES  
MAGNETOIONICS

GYROINTERACTION  
USE MAGNETIC RIGIDITY

GYROMAGNETISM  
2304 2305 2307  
NT GYROFREQUENCY  
BT #MAGNETIC PROPERTIES

GYROPLANES  
USE HELICOPTERS

GYROS  
USE #GYROSCOPES

GYROSCOPE FLUIDS  
1403 2102  
RT DAMPING  
FLUIDS  
ROTARY GYROSCOPES  
SUSPENDING (HANGING)

#GYROSCOPES  
1403 2104  
UF GYROS  
GYROSCOPIC DRIFT  
GYROSTATS  
NT ATTITUDE GYROS  
CONTROL MOMENT GYROSCOPES  
CRYOGENIC GYROSCOPES  
ELECTROSTATIC GYROSCOPES  
FLUID ROTOR GYROSCOPES  
GYRO HORIZONS  
GYROCOMPASSES  
GYROSCOPIC PENDULUMS  
GYROSTABILIZERS  
NUCLEAR GYROSCOPES  
OPTICAL GYROSCOPES  
ROTARY GYROSCOPES  
TUNING FORK GYROSCOPES  
RT AUTOMATIC PILOTS  
GIMBALLESS INERTIAL NAVIGATION  
GIMBALS  
GYROSCOPIC STABILITY  
PRECESSION  
STABILIZERS  
TORQUERS

GYROSCOPIC COUPLING  
2308 2405 3407  
BT COUPLING

GYROSCOPIC DRIFT  
USE #GYROSCOPES  
GYROSCOPIC STABILITY

GYROSCOPIC PENDULUMS  
1403 2308  
UF PENDULOUS GYROSCOPES  
BT #GYROSCOPES  
MECHANICAL OSCILLATORS  
#OSCILLATORS  
PENDULUMS  
RT ACCELEROMETERS  
DAMPING  
SCHULER TUNING

GYROSCOPIC STABILITY  
1403 2308  
UF GYROSCOPIC DRIFT  
BT ATTITUDE STABILITY  
DIRECTIONAL STABILITY  
#DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
ROTARY STABILITY  
#STABILITY  
RT DAMPING  
#GYROSCOPES  
HOVERING STABILITY  
INERTIAL PLATFORMS  
PRECESSION  
ROTARY GYROSCOPES  
SCHULER TUNING  
STABILIZED PLATFORMS  
STABLE OSCILLATIONS  
YO-YO DEVICES

GYROSTABILIZERS  
1403 2308  
BT #GYROSCOPES  
RT #NAVIGATION AIDS

NASA THESAURUS (ALPHABETICAL LISTING)

STABILIZED PLATFORMS  
THRUST VECTOR CONTROL  
GYROSTATS  
USE #GYROSCOPES  
GYROTROPISM  
0710 2304 3408  
BT TROPISM

GYROTROPISM

# H

H-126 AIRCRAFT  
0207  
UP HUNTING H-126 AIRCRAFT  
BT #BAC AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
RT JET FLAPS  
H ALPHA LINE  
1411 2402 2903 3009  
BT ELECTROMAGNETIC SPECTRA  
H LINES  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
EMISSION SPECTRA  
H BETA LINE  
H GAMMA LINE  
SOLAR SPECTRA  
H BETA LINE  
1411 2402 2405  
BT ELECTROMAGNETIC SPECTRA  
H LINES  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
BALMER SERIES  
EMISSION SPECTRA  
H ALPHA LINE  
H GAMMA LINE  
SOLAR SPECTRA  
H-1 ENGINE  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT JUNO 5 LAUNCH VEHICLE  
SATURN 1B LAUNCH VEHICLES  
SATURN 1 LAUNCH VEHICLES  
H GAMMA LINE  
1411 2402 2406  
BT ELECTROMAGNETIC SPECTRA  
H LINES  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
BALMER SERIES  
EMISSION SPECTRA  
H ALPHA LINE  
H BETA LINE  
SOLAR SPECTRA  
H-13 HELICOPTER  
USE OH-13 HELICOPTER  
H-17 HELICOPTER  
0206  
UP FLYING CRANE HELICOPTER  
BT HELICOPTERS  
HUGHES AIRCRAFT  
#JET AIRCRAFT  
RESEARCH AIRCRAFT  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
H-19 HELICOPTER  
0206 0207  
BT HELICOPTERS  
MILITARY HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT #V/STOL AIRCRAFT  
H-21 HELICOPTER  
USE CH-21 HELICOPTER  
H-23 HELICOPTER  
USE OH-23 HELICOPTER  
H-25 HELICOPTER  
0206  
BT BOEING AIRCRAFT  
HELICOPTERS  
ROTARY WING AIRCRAFT  
TANDEM ROTOR HELICOPTERS  
#V/STOL AIRCRAFT  
RT ANTISUBMARINE WARFARE AIRCRAFT  
H-34 HELICOPTER  
USE CH-34 HELICOPTER

H-41 HELICOPTER  
USE NH-41 HELICOPTER  
H-43 HELICOPTER  
0206 0207  
BT HELICOPTERS  
KAMAN AIRCRAFT  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
H-51 HELICOPTER  
USE XH-51 HELICOPTER  
H-53 HELICOPTER  
0206 0207  
UP CH-53 HELICOPTER  
HHX HELICOPTER  
SIKORSKY S-65 HELICOPTER  
HELICOPTERS  
BT MILITARY HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
RT AIRCRAFT  
H-54 HELICOPTER  
0206 0207  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
RT AIRCRAFT  
H-56 HELICOPTER  
0206 0207  
BT HELICOPTERS  
MILITARY HELICOPTERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
H LINES  
2308 2402  
(EXCLUDES SURFACES OF CONSTANT  
MAGNETIC FIELD STRENGTH)  
NT H ALPHA LINE  
H BETA LINE  
H GAMMA LINE  
K LINES  
LYMAN SPECTRA  
PASCHEN SERIES  
RYDBERG SERIES  
TELLURIC LINES  
BT ELECTROMAGNETIC SPECTRA  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
BALMER SERIES  
D LINES  
EMISSION SPECTRA  
K LINES  
SOLAR SPECTRA  
H WAVES  
2308 2402  
BT #ELECTROMAGNETIC RADIATION  
#OSCILLATIONS  
TRANSVERSE OSCILLATION  
RT ELECTRIC FIELD STRENGTH  
HABITABILITY  
0504 0506 0507  
RT ECOLOGY  
ENVIRONMENTAL CONTROL  
#ENVIRONMENTS  
SHELTERS  
HABITS  
0408 0410  
RT #LEARNING  
PSYCHOLOGICAL FACTORS  
HABITUATION (LEARNING)  
0408 0410  
RT CONDITIONING (LEARNING)  
#LEARNING  
HADRON  
2403  
BT ELEMENTARY PARTICLES  
#PARTICLES  
RT VECTOR DOMINANCE MODEL  
HAFNIUM  
0603 1703  
NT HAFNIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS

HAFNIUM ALLOYS  
0603 1701 1703  
BT #ALLOYS  
HAFNIUM CARBIDES  
0603 1703 1804 2304  
BT CARBIDES  
#CARBON COMPOUNDS  
HAFNIUM COMPOUNDS  
HAFNIUM COMPOUNDS  
0603 1703 1804  
NT HAFNIUM CARBIDES  
HAFNIUM IODIDES  
HAFNIUM OXIDES  
RT GROUP 4B COMPOUNDS  
METAL COMPOUNDS  
HAFNIUM IODIDES  
0603 1804  
BT HAFNIUM COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
IODIDES  
IODINE COMPOUNDS  
METAL HALIDES  
HAFNIUM ISOTOPES  
0603 1703 1704 2406  
BT #CHEMICAL ELEMENTS  
HAFNIUM  
ISOTOPES  
NUCLIDES  
HAFNIUM OXIDES  
0603 1703 1804  
BT #CHALCOGENIDES  
HAFNIUM COMPOUNDS  
METAL OXIDES  
OXIDES  
HAIL  
1301 2001 2003  
UP HAILSTONES  
BT PRECIPITATION (METEOROLOGY)  
RT CLOUD GLACIATION  
ICE FORMATION  
STORMS (METEOROLOGY)  
THUNDERSTORMS  
HAILSTONES  
USE HAIL  
HAIR  
0403 0405  
BT #FIBERS  
RT KERATINS  
WOOL  
HALDEN BOILING WATER REACTOR  
2204  
UP HALDEN REACTOR  
HWR REACTOR  
BT BOILING WATER REACTORS  
LIQUID COOLED REACTORS  
#NUCLEAR REACTORS  
WATER COOLED REACTORS  
HALDEN REACTOR  
USE HALDEN BOILING WATER REACTOR  
HALF CONES  
0101 0102  
RT AERODYNAMIC CONFIGURATIONS  
CIRCULAR CONES  
#CONES  
CONICS  
NOSE CONES  
HALF LIFE  
2401 2406  
BT #DECAY  
LIFE (DURABILITY)  
RT #NUCLEAR REACTIONS  
POST-BLAST NUCLEAR RADIATION  
RADIATIVE LIFETIME  
RADIOACTIVE AGE DETERMINATION  
RADIOACTIVE DECAY  
RADIOACTIVITY  
REACTION KINETICS  
HALF PLANES  
1902  
BT #ANALYSIS (MATHEMATICS)  
RT BOUNDARY VALUE PROBLEMS  
#COORDINATES  
DIFFERENTIAL EQUATIONS  
GREEN FUNCTION  
HALF SPACES  
1902  
BT #ANALYSIS (MATHEMATICS)  
RT BOUNDARY VALUE PROBLEMS  
#COORDINATES  
ELLIPTIC DIFFERENTIAL EQUATIONS  
GREEN FUNCTION



# HALIDES

## HALIDES

0603 1804 1808

NT ALKALI HALIDES  
ALUMINUM CHLORIDES  
ALUMINUM FLUORIDES  
AMMONIUM BROMIDES  
AMMONIUM CHLORIDES  
ANTIMONY FLUORIDES  
ARCOLINE HYDROBROMIDE  
BARIUM FLUORIDES  
BERYLLIUM CHLORIDES  
BERYLLIUM FLUORIDES  
BORON CHLORIDES  
BORON FLUORIDES  
BROMIDES  
CADMIUM CHLORIDES  
CADMIUM FLUORIDES  
CALCIUM CHLORIDES  
CALCIUM FLUORIDES  
CARBON TETRACHLORIDE  
CESIUM BROMIDES  
CESIUM FLUORIDES  
CESIUM HALIDES  
CESIUM IODIDES  
CHLORIDES  
CHLORINE FLUORIDES  
CHROMIUM BROMIDES  
CHROMIUM FLUORIDES  
COBALT FLUORIDES  
COPPER CHLORIDES  
COPPER FLUORIDES  
DIBROMIDES  
DICHLORIDES  
DIFLUORIDES  
FLUORIDES  
FLUORSPAR  
GERMANIUM CHLORIDES  
HAFNIUM IODIDES  
HYDROBROMIC ACID  
HYDROBROMIDES  
HYDROCHLORIC ACID  
HYDROCHLORIDES  
HYDROFLUORIC ACID  
IRON CHLORIDES  
LANTHANUM CHLORIDES  
LANTHANUM FLUORIDES  
LEAD CHLORIDES  
LITHIUM CHLORIDES  
LITHIUM FLUORIDES  
MAGNESIUM BROMIDES  
MAGNESIUM CHLORIDES  
MAGNESIUM FLUORIDES  
METAL HALIDES  
NICKEL FLUORIDES  
NIOBIUM IODIDES  
NITROGEN FLUORIDES  
NITROXYL CHLORIDES  
NITROXYCHLORIDES  
NITRYL CHLORIDES  
OXYFLUORIDES  
OXYGEN FLUORIDES  
OXYHALIDES  
OZONE FLUORIDE  
PERCHLORYL FLUORIDES  
PHOSGENE  
PLUTONIUM FLUORIDES  
POTASSIUM BROMIDES  
POTASSIUM CHLORIDES  
POTASSIUM IODIDES  
PROTACTINIUM FLUORIDES  
SILICON TETRACHLORIDE  
SILVER BROMIDES  
SILVER CHLORIDES  
SILVER HALIDES  
SILVER IODIDES  
SODIUM BROMIDES  
SODIUM CHLORIDES  
SODIUM FLUORIDES  
SODIUM IODIDES  
STRONTIUM BROMIDES  
STRONTIUM FLUORIDES  
SULFUR CHLORIDES  
SULFUR FLUORIDES  
TECHNETIUM FLUORIDES  
TETRACHLORIDES  
THORIUM FLUORIDES  
TITANIUM CHLORIDES  
TUNGSTEN CHLORIDES  
TUNGSTEN FLUORIDES  
TUNGSTEN HALIDES  
URANIUM FLUORIDES  
ZINC FLUORIDES

ZIRCONIUM IODIDES  
BT #HALOGEN COMPOUNDS  
BT HALOGENS  
HALITES  
0603 1806  
UF ROCK SALT  
BT SALTS  
HALL ACCELERATORS  
2401 2405  
BT ACCELERATORS  
ALPHA PLASMA DEVICES  
MAGNETOHYDRODYNAMICS  
PLASMA PHYSICS  
HALL COEFFICIENT  
USE HALL EFFECT  
HALL CURRENTS  
USE #ELECTRIC CURRENT  
HALL EFFECT  
HALL EFFECT  
2304 2402  
UF HALL COEFFICIENT  
HALL CURRENTS  
BT CARRIER MOBILITY  
GALVANOMAGNETIC EFFECTS  
HALL GENERATORS  
MAGNETOHYDRODYNAMICS  
MOBILITY  
POLARIZATION (CHARGE SEPARATION)  
SEMICONDUCTOR DEVICES  
#TRANSPORT PROPERTIES  
HALL GENERATORS  
2304 2402  
BT CIRCULATORS (PHASE SHIFT CIRCUITS)  
PARADAY EFFECT  
GENERATORS  
HALL EFFECT  
#PLASMA GENERATORS  
SIGNAL GENERATORS  
HALLAM NUCLEAR POWER FACILITY  
2202 2204  
UF HNPFF (HALLAM NUCLEAR POWER FACILITY)  
BT #ELECTRIC POWER PLANTS  
#NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER PLANTS  
BT POWER PLANTS  
SODIUM GRAPHITE REACTORS  
HALLUCINATIONS  
0408  
BT ILLUSIONS  
#PSYCHOLOGICAL EFFECTS  
BT SIGNS AND SYMPTOMS  
HALO ORBIT SPACE STATION  
3009 3109 3409  
BT ORBITAL SPACE STATIONS  
SPACE STATIONS  
#STATIONS  
BT ARTIFICIAL EARTH SATELLITES  
#LUNAR SPACECRAFT  
#SATELLITES  
HALO PARACHUTING  
USE PARACHUTE DESCENT  
#HALOGEN COMPOUNDS  
0603 1804  
UF GROUP 7A COMPOUNDS  
NT ALKALI HALIDES  
ALUMINUM CHLORIDES  
ALUMINUM FLUORIDES  
ALUMINUM PERCHLORATES  
AMMONIUM BROMIDES  
AMMONIUM CHLORIDES  
AMMONIUM PERCHLORATES  
ANTIMONY FLUORIDES  
ARCOLINE HYDROBROMIDE  
BARIUM FLUORIDES  
BERYLLIUM CHLORIDES  
BERYLLIUM FLUORIDES  
BORON CHLORIDES  
BORON FLUORIDES  
BROMATES  
BROMIDES  
BROMINE COMPOUNDS  
CADMIUM CHLORIDES  
CADMIUM FLUORIDES  
CALCIUM CHLORIDES  
CALCIUM FLUORIDES  
CARBON TETRACHLORIDE  
CARBON TETRAFLUORIDE  
CESIUM BROMIDES  
CESIUM FLUORIDES  
CESIUM HALIDES

# NASA THESAURUS (ALPHABETICAL LISTING)

CESIUM IODIDES  
CHLORATES  
CHLORIDES  
CHLORINE COMPOUNDS  
CHLORINE FLUORIDES  
CHLORINE OXIDES  
CHLOROSILANES  
CHROMIUM BROMIDES  
CHROMIUM FLUORIDES  
COBALT FLUORIDES  
COMPOUND A  
COPPER CHLORIDES  
COPPER FLUORIDES  
CRYOLITE  
DIBROMIDES  
DICHLORIDES  
DICHLORODIPHENYLTRICHLOROETHANE  
DIFLUORIDES  
DIFLUORO COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLUORITE  
FLUORO COMPOUNDS  
FLUOROAMINES  
FLUOROCARBONS  
FLUOROHYDROCARBONS  
FLUORSPAR  
GALLAMINE TRIETHIODIDE  
GERMANIUM CHLORIDES  
HAFNIUM IODIDES  
HALIDES  
HYDRAZINE PERCHLORATES  
HYDROBROMIC ACID  
HYDROBROMIDES  
HYDROCHLORIC ACID  
HYDROCHLORIDES  
HYDROFLUORIC ACID  
HYDROGEN PERCHLORATE  
HYDROXYLAMMONIUM PERCHLORATES  
IODATES  
IODIDES  
IODINE COMPOUNDS  
IODOACETIC ACID  
IRON CHLORIDES  
LANTHANUM CHLORIDES  
LANTHANUM FLUORIDES  
LEAD CHLORIDES  
LITHIUM CHLORIDES  
LITHIUM FLUORIDES  
LITHIUM PERCHLORATES  
MAGNESIUM BROMIDES  
MAGNESIUM CHLORIDES  
MAGNESIUM FLUORIDES  
MAGNESIUM PERCHLORATES  
MECLIZINE  
METAL HALIDES  
NICKEL FLUORIDES  
NIOBIUM IODIDES  
NITROFLUORAMINES  
NITROGEN FLUORIDES  
NITRONIUM PERCHLORATE  
NITROXYL CHLORIDES  
NITROXYCHLORIDES  
NITRYL CHLORIDES  
OXYFLUORIDES  
OXYGEN FLUORIDES  
OXYHALIDES  
OZONE FLUORIDE  
PERCHLORATES  
PERCHLORYL FLUORIDES  
PERFLUOROALKANE  
PERFLUOROGUANIDINE  
PHOSGENE  
PLUTONIUM FLUORIDES  
POLYTETRAFLUOROETHYLENE  
POTASSIUM BROMIDES  
POTASSIUM CHLORIDES  
POTASSIUM IODIDES  
POTASSIUM PERCHLORATES  
PROTACTINIUM FLUORIDES  
SILICON TETRACHLORIDE  
SILVER BROMIDES  
SILVER CHLORIDES  
SILVER HALIDES  
SILVER IODIDES  
SODIUM BROMIDES  
SODIUM CHLORIDES  
SODIUM FLUORIDES  
SODIUM IODIDES  
STRONTIUM BROMIDES  
STRONTIUM FLUORIDES  
SULFUR CHLORIDES  
SULFUR FLUORIDES

# NASA THESAURUS (ALPHABETICAL LISTING)

# HARMONIC ANALYSIS

TECHNETIUM FLUORIDES  
 TETRACHLORIDES  
 THORIUM FLUORIDES  
 TITANIUM CHLORIDES  
 TRIFLUOROAMINE OXIDE  
 TUNGSTEN CHLORIDES  
 TUNGSTEN FLUORIDES  
 TUNGSTEN HALIDES  
 URANIUM FLUORIDES  
 ZINC FLUORIDES  
 ZIRCONIUM IODIDES  
 RT CHEMICAL COMPOUNDS  
 HALOGENATION  
 0602  
 NT BROMINATION  
 CHLORINATION  
 FLUORINATION  
 BT #CHEMICAL REACTIONS  
 RT DEFLUORINATION  
 HALOGENS  
 0603 1807  
 NT ASTATINE  
 BROMINE  
 BROMINE ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 RT HALIDES  
 HALOGENATION  
 HALOPHILES  
 0402 0404 0409  
 RT AGRICULTURE  
 #PLANTS (BOTANY)  
 HALOS  
 2306 2310  
 RT ATMOSPHERIC SCATTERING  
 CORONAS  
 HAZE  
 IMAGES  
 RAINBOWS  
 HALPHEN METHOD  
 0101 0102 0708 0709 1302 1904 3006  
 RT METHODOLOGY  
 HAMBURGER AIRCRAFT  
 0207  
 NT C-160 AIRCRAFT  
 HPB-320 AIRCRAFT  
 RT AIRCRAFT  
 HAMBURGER HPB-320 AIRCRAFT  
 USE HPB-320 AIRCRAFT  
 HAMILTON-JACOBI EQUATION  
 1902 3001  
 RT EQUATIONS  
 #EQUATIONS OF MOTION  
 HAMILTONIAN FUNCTIONS  
 RELATIVISTIC PARTICLES  
 HAMILTONIAN FUNCTIONS  
 1903 2311  
 BT #FUNCTIONS (MATHEMATICS)  
 RT #CLASSICAL MECHANICS  
 DYNAMICS  
 HAMILTON-JACOBI EQUATION  
 QUANTUM THEORY  
 VON ZEIPPEL METHOD  
 HAMMERHEAD CONFIGURATION  
 0101 0102 1202  
 RT #FOREBODIES  
 MISSILE CONFIGURATIONS  
 HAMMERS  
 1507  
 NT ELECTROMAGNETIC HAMMERS  
 RT IMPACTORS  
 PRESSES  
 RAMS (PRESSES)  
 #TOOLS  
 HAMSTERS  
 0402  
 BT #ANIMALS  
 MAMMALS  
 RODENTS  
 VERTEBRATES  
 HAND (ANATOMY)  
 0404 0506  
 BT #ANATOMY  
 #APPENDAGES  
 LIMBS (ANATOMY)  
 RT FINGERS  
 WRIST  
 HANDBOOKS  
 3405  
 BT #DOCUMENTS  
 RT BIBLIOGRAPHIES  
 INDEXES (DOCUMENTATION)

MANUALS  
 SUBJECTS  
 TEXTBOOKS  
 HANDEDNESS  
 1408 1504 1902 2311  
 RT LATERAL STABILITY  
 HANDICAPS  
 0405 0408 0410  
 RT FRUSTRATION  
 INHIBITION  
 HANDLES  
 0506 1502  
 RT KNOBS  
 LEVERS  
 MANUAL CONTROL  
 HANDLEY PAGE AIRCRAFT  
 0201 0207  
 NT HP-115 AIRCRAFT  
 VICTOR MK-1 AIRCRAFT  
 RT AIRCRAFT  
 HANDLEY PAGE HP-115 AIRCRAFT  
 USE HP-115 AIRCRAFT  
 HANDLING  
 USE MATERIALS HANDLING  
 #HANDLING EQUIPMENT  
 1502  
 NT CRANES  
 GANTRY CRANES  
 RT CRAWLER TRACTORS  
 EQUIPMENT  
 GROUND SUPPORT EQUIPMENT  
 LOCOMOTIVES  
 PROPELLANT STORAGE  
 STORAGE  
 TRACTORS  
 #TRANSPORTATION  
 HANDLING QUALITIES  
 USE CONTROLLABILITY  
 HANDWRITING  
 0506 0802 3405  
 RT CHARACTER RECOGNITION  
 HANFORD REACTORS  
 2202 2204  
 BT #NUCLEAR REACTORS  
 RT REACTOR DESIGN  
 REACTOR PHYSICS  
 REACTOR TECHNOLOGY  
 HANGARS  
 1101 1103  
 RT AIRFIELD SURFACE MOVEMENTS  
 AIRPORTS  
 BUILDINGS  
 GROUND HANDLING  
 GROUND STATIONS  
 HELIPORTS  
 MILITARY AIR FACILITIES  
 HANKEL FUNCTIONS  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 BESSEL FUNCTIONS  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
 REAL VARIABLES  
 RT BOUNDARY VALUE PROBLEMS  
 DIFFERENTIAL EQUATIONS  
 ORTHOGONAL FUNCTIONS  
 HANSEN LUNAR THEORY  
 1308 3001 3009  
 RT EARTH ORBITS  
 ORBITAL MECHANICS  
 PERTURBATION THEORY  
 THEORIES  
 HARDENERS  
 0602 1704 1804 1808  
 RT #ALLOYS  
 #HARDENING (MATERIALS)  
 #HEAT TREATMENT  
 HARDENING  
 1704 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #HARDENING (MATERIALS)  
 HARDENING (SYSTEMS)  
 #HARDENING (MATERIALS)  
 1704 3407  
 UP METAL HARDENING  
 NT CARBURIZING  
 COLD HARDENING  
 HOT PRESSING  
 MARAGING  
 NITRIDING

PRECIPITATION HARDENING  
 PULSE HEATING  
 SHOT PEENING  
 SILICONIZING  
 STRAIN HARDENING  
 WORK HARDENING  
 RT AGING (MATERIALS)  
 AGING (METALLURGY)  
 ANNEALING  
 COAGULATION  
 HARDENERS  
 HARDENING  
 #HEAT TREATMENT  
 MARTENSITE  
 #METAL WORKING  
 METALLURGY  
 MICROSTRUCTURE  
 NORMALIZING (HEAT TREATMENT)  
 PEENING  
 QUENCHING (COOLING)  
 SETTING  
 SOFTENING  
 TEMPERING  
 HARDENING (SYSTEMS)  
 3407  
 (TECHNIQUES FOR DECREASING THE  
 SUSCEPTIBILITY OR VULNERABILITY OF  
 WEAPON SYSTEMS AND COMPONENTS)  
 RT HARDENING  
 MISSILE DEFENSE  
 NUCLEAR WARFARE  
 HARDNESS  
 1704 1806 3408  
 NT KNOOP HARDNESS  
 MICROHARDNESS  
 ROCKWELL HARDNESS  
 BT #MECHANICAL PROPERTIES  
 RT ABRASION RESISTANCE  
 BRITTLE MATERIALS  
 BRITTLENESS  
 CHARTY IMPACT TEST  
 COLD HARDENING  
 DUCTILITY  
 FATIGUE (MATERIALS)  
 FRACTURE STRENGTH  
 HARDNESS TESTS  
 IMPACT STRENGTH  
 INDENTATION  
 NOTCH TESTS  
 PLASTIC PROPERTIES  
 #SURFACE PROPERTIES  
 TEMPER (METALLURGY)  
 TOUGHNESS  
 WEAR  
 HARDNESS TESTS  
 1704 1806 3407  
 RT COMPRESSION TESTS  
 HARDNESS  
 HIGH TEMPERATURE TESTS  
 IMPACT TESTS  
 KNOOP HARDNESS  
 LOW TEMPERATURE TESTS  
 MATERIALS TESTS  
 #NONDESTRUCTIVE TESTS  
 STATIC TESTS  
 TESTS  
 WEAR TESTS  
 HARDWARE  
 0801 1504 1507  
 RT COMPUTERS  
 ELECTRONIC MODULES  
 EQUIPMENT  
 FIXTURES  
 #TOOLS  
 HARLETON METEORITE  
 3005  
 BT #CELESTIAL BODIES  
 METEORITES  
 RT IRON METEORITES  
 STONY METEORITES  
 HARMONIC ANALYSIS  
 1902 1905  
 NT TESSERAL HARMONICS  
 ZONAL HARMONICS  
 BT #ANALYSIS (MATHEMATICS)  
 FUNCTIONAL ANALYSIS  
 RT BANACH SPACE  
 FORM FACTORS  
 FOURIER ANALYSIS  
 FREQUENCY ANALYZERS  
 HARMONIC FUNCTIONS  
 HARMONIC RADIATION

# HARMONIC EXCITATION

MICROWAVE RESONANCE  
HARMONIC EXCITATION  
2311  
BT #EXCITATION  
WAVE EXCITATION  
RT ACOUSTICS  
FOURIER ANALYSIS  
SIMPLE HARMONIC MOTION  
HARMONIC FUNCTIONS  
1902 1905  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
RT AIRY FUNCTION  
FOURIER ANALYSIS  
HARMONIC ANALYSIS  
LAPLACE EQUATION  
MAXIMUM PRINCIPLE  
HARMONIC GENERATIONS  
0702 2311  
UF SECONDARY HARMONIC GENERATION  
BT HARMONICS  
RT ACOUSTICS  
CARRIER FREQUENCIES  
FOURIER ANALYSIS  
HARMONIC RADIATION  
WAVE GENERATION  
HARMONIC GENERATORS  
0904 2311  
RT COMPARATORS  
FREQUENCY CONVERTERS  
GENERATORS  
HARMONIC OSCILLATORS  
HARMONICS  
#OSCILLATORS  
SUBHARMONIC GENERATORS  
HARMONIC MOTION  
2308  
NT SIMPLE HARMONIC MOTION  
RT GROUP VELOCITY  
HARMONIC OSCILLATION  
HARMONIC OSCILLATORS  
MOTION  
HARMONIC OSCILLATION  
2308 2311  
BT #OSCILLATIONS  
RT ACOUSTICS  
FOURIER ANALYSIS  
HARMONIC MOTION  
HARMONIC RADIATION  
TRANSVERSE OSCILLATION  
HARMONIC OSCILLATORS  
0905 2308  
BT #OSCILLATORS  
RT HARMONIC GENERATORS  
HARMONIC MOTION  
HARMONICS  
MECHANICAL OSCILLATORS  
SUBHARMONIC GENERATORS  
HARMONIC RADIATION  
2308 2402  
RT #ELECTROMAGNETIC RADIATION  
HARMONIC ANALYSIS  
HARMONIC GENERATIONS  
HARMONIC OSCILLATION  
RADIATION  
HARMONICS  
2301 2308 2402  
UF OVERTONES  
NT SPHERICAL HARMONICS  
SUPERHARMONICS  
TETRAHARMONICS  
ZONAL HARMONICS  
RT ACOUSTICS  
#CYCLES  
FOURIER ANALYSIS  
#FREQUENCIES  
HARMONIC GENERATORS  
HARMONIC OSCILLATORS  
NODES (STANDING WAVES)  
RESONANT FREQUENCIES  
SOUND-SOUND INTERACTIONS  
STANDING WAVES  
SUBAUDIBLE FREQUENCIES  
SUBHARMONIC GENERATORS  
#VIBRATION  
WAVELENGTHS  
HARMONICS  
0202 1103 1504 3203 3404  
RT COUCHES  
SAFETY DEVICES  
SEAT BELTS  
SEATS  
#TRANSMISSION LINES

BARRIER AIRCRAFT  
0207 3401  
BT FIGHTER AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
RT BUCCANEER AIRCRAFT  
MILITARY AIRCRAFT  
MIRAGE 37 AIRCRAFT  
P-1127 AIRCRAFT  
SAAB 37 AIRCRAFT  
VAMPIRE MK 35 AIRCRAFT  
VULCAN AIRCRAFT  
HARTMANN FLOW  
1202  
BT #FLOID FLOW  
LAMINAR FLOW  
STEADY FLOW  
RT COUETTE FLOW  
HARTMANN NUMBER  
MAGNETOHYDRODYNAMIC FLOW  
MAGNETOHYDRODYNAMICS  
TWO DIMENSIONAL FLOW  
HARTMANN NUMBER  
1202 1902  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
RT HARTMANN FLOW  
MAGNETOHYDRODYNAMICS  
VISCIOUS DRAG  
HARTREE-APPLETON APPROXIMATION  
USE HARTREE APPROXIMATION  
HARTREE APPROXIMATION  
1902 2311 2401  
UF HARTREE-APPLETON APPROXIMATION  
HARTREE-POCK APPROXIMATION  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
RT ATOMIC STRUCTURE  
MANY BODY PROBLEM  
PERTURBATION THEORY  
SELF CONSISTENT FIELDS  
WAVE FUNCTIONS  
HARTREE-POCK APPROXIMATION  
USE HARTREE APPROXIMATION  
HARVARD RADIO METEOR PROJECT  
0702 0705 1404  
BT #PROGRAMS  
PROJECTS  
RT RADIO ECHOES  
HASTELLOY (TRADEMARK)  
1701 1704  
BT #ALLOYS  
NICKEL ALLOYS  
RT IRON ALLOYS  
MOLYBDENUM ALLOYS  
HATCHES  
0202 0506  
RT AIR LOCKS  
DOORS  
EGRESS  
GATES (OPENINGS)  
HAULING  
0201 0204 1103 1502 1504 3407  
RT #CARGO  
DELIVERY  
MATERIALS HANDLING  
PACKAGING  
#TRANSPORTATION  
TRUCKS  
HAWAII  
1305  
BT UNITED STATES OF AMERICA  
HAWK MISSILE  
3101 3401  
BT #MISSILES  
SURFACE TO AIR MISSILES  
RT SOLID PROPELLANT ROCKET ENGINES  
HAWKER HUNTER AIRCRAFT  
USE F-2 AIRCRAFT  
HAWKER P-1052 AIRCRAFT  
USE P-1052 AIRCRAFT  
HAWKER P-1127 AIRCRAFT  
USE P-1127 AIRCRAFT  
HAWKER P-1154 AIRCRAFT  
USE P-1154 AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
0201 0207 1106 3401  
NT ARGOSY MK-1 AIRCRAFT  
AVRO 707 AIRCRAFT  
AW 650 AIRCRAFT  
BUCCANEER AIRCRAFT  
COMET 4 AIRCRAFT  
DH 108 AIRCRAFT  
DH 110 AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

DH 112 AIRCRAFT  
DH 115 AIRCRAFT  
DH 121 AIRCRAFT  
DH 125 AIRCRAFT  
P-2 AIRCRAFT  
CA-5 AIRCRAFT  
HARRIER AIRCRAFT  
HS-748 AIRCRAFT  
HS-801 AIRCRAFT  
P-1052 AIRCRAFT  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT  
SHACKLETON BOMBER  
VAMPIRE MK 35 AIRCRAFT  
VULCAN AIRCRAFT  
RT AIRCRAFT  
HAWKEYE AIRCRAFT  
USE E-2 AIRCRAFT  
HAYNES STELLITE  
USE STELLITE (TRADEMARK)  
#HAZARDS  
0411 0412 0502 3302 3401 3406  
UF DANGER  
NOISE HAZARDS  
SAFETY HAZARDS  
RT AIRCRAFT HAZARDS  
FLIGHT HAZARDS  
METEOROID HAZARDS  
OPERATIONAL HAZARDS  
RADIATION HAZARDS  
TOXIC HAZARDS  
RT ACCIDENT PREVENTION  
ACCIDENTS  
CRASH INJURIES  
DETECTORS  
#EXPLOSIONS  
FIRES  
FLAMMABLE GASES  
INCOMPATIBILITY  
#INJURIES  
LOW VISIBILITY  
NOISE TOLERANCE  
#PROTECTION  
RISK  
SAFETY  
SAFETY DEVICES  
SAFETY FACTORS  
SAFETY MANAGEMENT  
SPONTANEOUS COMBUSTION  
TOXICOLOGY  
#WARNING SYSTEMS  
HAZE  
1301 2003 2310  
RT AIR POLLUTION  
ATMOSPHERIC OPTICS  
CLARITY  
FOG  
HALOS  
LIGHT TRANSMISSION  
LOW VISIBILITY  
MIST  
OPACITY  
OPTICAL PROPERTIES  
TRANSPARENCY  
TURBIDITY  
VISIBILITY  
HBWQ  
USE NITROGUANIDINE  
HBWR REACTOR  
USE HALDEN BOILING WATER REACTOR  
HC-1 HELICOPTER  
USE CH-47 HELICOPTER  
HC-3 HELICOPTER  
0204 0206  
UF OHNIPOL HC-3 HELICOPTER  
BT GENERAL AVIATION AIRCRAFT  
HELICOPTERS  
OHNIPOL AIRCRAFT  
ROTARY WING AIRCRAFT  
#TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
RT PASSENGER AIRCRAFT  
HD-1 GROUND EFFECT MACHINES  
USE HOVERCRAFT GROUND EFFECT MACHINES  
HE-211 AIRCRAFT  
0204  
UF HEINKEL HE-211 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
HEINKEL AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TURBOPAN AIRCRAFT

# NASA THESAURUS: (ALPHABETICAL LISTING)

# HEAT EXCHANGERS

**HEAD (ANATOMY)**  
0404 0505  
**BT** CRANIUM  
INTRACRANIAL CAVITY  
OCCIPITAL LOBES  
SKULL  
**BT** #ANATOMY  
**BT** BRAIN  
**BT** EYE (ANATOMY)  
FACE (ANATOMY)  
HEAD MOVEMENT  
LIPS (ANATOMY)  
NOSE (ANATOMY)  
SENSE ORGANS  
**HEAD (FLUID MECHANICS)**  
1202  
**BT** ELEVATION  
#FLUID FLOW  
GEOPOTENTIAL HEIGHT  
HYDROSTATIC PRESSURE  
HYDROSTATICS  
LIQUID FLOW  
#PRESSURE  
SCALE HEIGHT  
**HEAD (PRESSURE)**  
**USE** PRESSURE HEADS  
**HEAD FLOW**  
1202 1203 2308  
**BT** #FLUID FLOW  
**BT** BASE FLOW  
BLASIUS FLOW  
INLET FLOW  
LIQUID FLOW  
PRESSURE DROP  
**HEAD MOVEMENT**  
0506  
**BT** HEAD (ANATOMY)  
MOTION  
**HEAD-UP DISPLAYS**  
1402  
**BT** #DISPLAY DEVICES  
**BT** AVIONICS  
CONSOLES  
#FLIGHT INSTRUMENTS  
IMAGE TUBES  
INDICATING INSTRUMENTS  
#LANDING AIDS  
#NAVIGATION AIDS  
POSITION INDICATORS  
SPACECRAFT POSITION INDICATORS  
#WARNING SYSTEMS  
**HEADACHE**  
0401 0405 0408  
**UP** CEPHALALGIA  
**BT** #DISEASES  
SIGNS AND SYMPTOMS  
**HEADERS**  
1501 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
**BT** BEAMS (SUPPORTS)  
CHASSIS  
HERMETIC SEALS  
PIPES (TUBES)  
SUPPORTS  
**HEADSETS**  
**USE** EARPHONES  
**HEALING**  
0405  
**BT** WOUND HEALING  
**BT** CLINICAL MEDICINE  
CURES  
THERAPY  
**HEALTH**  
0405 0411  
**BT** HEALTH PHYSICS  
**BT** CLINICAL MEDICINE  
HYGIENE  
PSYCHOTHERAPY  
SANITATION  
**HEALTH PHYSICS**  
0401 0405 0408 0411  
**BT** BIOPHYSICS  
**BT** HEALTH  
**BT** FLUENCE  
HEALTH PHYSICS RESEARCH REACTOR  
INDUSTRIAL SAFETY  
#NUCLEAR PHYSICS  
NUCLEAR RADIATION  
PHYSICS  
RADIATION DETECTORS

RADIATION DOSAGE  
RADIATION EFFECTS  
RADIATION HAZARDS  
RADIATION INJURIES  
RADIATION MEASURING INSTRUMENTS  
RADIATION MEDICINE  
RADIATION PROTECTION  
RADIATION SICKNESS  
RADIOBIOLOGY  
SAFETY FACTORS  
**HEALTH PHYSICS RESEARCH REACTOR**  
0411 2204  
**UP** HPRR  
**BT** #NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
**BT** HEALTH PHYSICS  
**HEAO**  
3001 3107 3409  
**UP** HIGH ENERGY ASTRONOMY OBSERVATORIES  
**BT** ASTRONOMICAL OBSERVATORIES  
#OBSERVATORIES  
**BT** OAO  
**HEARING**  
0404 0506  
**BT** ACOUSTIC FATIGUE  
BINAURAL HEARING  
**BT** AUDIOLOGY  
AUDIOMETRY  
EAR  
THRESHOLDS (PERCEPTION)  
**HEARING LOSS**  
**USE** AUDITORY DEFECTS  
**HEART**  
0404 0405 0408 0503  
**BT** CARDIAC AURICLES  
CARDIAC VENTRICLES  
EPICARDIUM  
MYOCARDIUM  
**BT** #ANATOMY  
CARDIOVASCULAR SYSTEM  
**BT** AORTA  
ARTIFICIAL HEART VALVES  
BLOOD  
CARDIOGRAMS  
CARDIOGRAPHY  
CARDIOLOGY  
CARDIOTACHOMETERS  
CIRCULATORY SYSTEM  
CORONARY CIRCULATION  
DIASTOLE  
HEART FUNCTION  
PHONOCARDIOGRAPHY  
**HEART DISEASES**  
0405 0408  
**BT** #DISEASES  
**BT** BRADYCARDIA  
CARDIOGRAPHY  
CARDIOLOGY  
ELECTROCARDIOGRAPHY  
FAT EMBOLISMS  
FIBRILLATION  
PHONOCARDIOGRAPHY  
**HEART FUNCTION**  
0404 0408  
**BT** HEART MINUTE VOLUME  
**BT** CYANOSIS  
**HEART**  
HEART RATE  
**HEART MINUTE VOLUME**  
0401 0404 0405 0408  
**BT** HEART FUNCTION  
**BT** SPIROMETERS  
**HEART RATE**  
0405 0408  
**BT** ARRHYTHMIA  
BRADYCARDIA  
SYSTOLE  
TACHYCARDIA  
**BT** #RATES (PER TIME)  
**BT** BIOMEDICAL DATA  
CARDIOLOGY  
DIASTOLE  
EPINEPHRINE  
HEART FUNCTION  
HERING-BREVER REFLEX  
SPHYGMOGRAPHY  
**HEARTHS**  
1504 1704  
**BT** FURNACES  
REFRACTORIES  
**HEAT**  
3301 3303 3304 3305

**BT** DRY HEAT  
HEAT OF DISSOCIATION  
NUCLEAR HEAT  
**BT** ACTIVATION ENERGY  
ENERGY  
ENTHALPY  
ENTROPY  
HEAT BALANCE  
HEAT EXCHANGERS  
HEAT SHIELDING  
HEAT SINKS  
HEAT STORAGE  
HEAT TRANSFER  
HEAT TRANSFER COEFFICIENTS  
HEAT TRANSMISSION  
#HEATING  
#HEATING EQUIPMENT  
INFRARED RADIATION  
#TEMPERATURE  
THERMAL ENERGY  
THERMAL INSULATION  
THERMAL RADIATION  
THERMOCHEMISTRY  
#THERMODYNAMIC PROPERTIES  
THERMODYNAMICS  
WORK  
**HEAT ACCLIMATIZATION**  
**USE** ACCLIMATIZATION  
HEAT TOLERANCE  
**HEAT BALANCE**  
1308 1408 2003 2903 3304  
**BT** ATMOSPHERIC HEAT BUDGET  
BALANCE  
BOILERS  
#COMBUSTION  
HEAT  
HEAT BUDGET  
MATERIAL BALANCE  
PYROMETALLURGY  
THERMOCHEMICAL PROPERTIES  
THERMOCHEMISTRY  
#THERMODYNAMIC PROPERTIES  
**HEAT BUDGET**  
1301 2003 3303 3304  
**BT** ATMOSPHERIC HEAT BUDGET  
**BT** #ENERGY BUDGETS  
**BT** BUDGETS  
HEAT BALANCE  
HEAT TRANSMISSION  
SPECIFIC HEAT  
**HEAT CAPACITY**  
**USE** SPECIFIC HEAT  
**HEAT CONDUCTION**  
**USE** CONDUCTIVE HEAT TRANSFER  
**HEAT CONTENT**  
**USE** ENTHALPY  
**HEAT DISSIPATION**  
**USE** #COOLING  
**HEAT DISSIPATION CHILLING**  
**USE** #COOLING  
**HEAT EFFECTS**  
**USE** TEMPERATURE EFFECTS  
**HEAT ENGINES**  
**USE** #ENGINES  
**HEAT EQUATIONS**  
**USE** THERMODYNAMICS  
**HEAT EXCHANGERS**  
3303 3304  
**BT** TUBE HEAT EXCHANGERS  
**BT** CONDENSERS (LIQUIFIERS)  
COOLANTS  
#COOLING  
COOLING FINS  
COOLING SYSTEMS  
COUNTERFLOW  
EVAPORATORS  
EXCHANGERS  
FINNED BODIES  
GAS COOLING  
HEAT  
HEAT PUMPS  
HEAT TRANSFER  
HEAT TRANSMISSION  
#HEATING  
#HEATING EQUIPMENT  
REGENERATIVE COOLING  
REGENERATORS  
SNAP  
SNAP 10A  
SNAP 1  
SNAP 2  
SNAP 8

# HEAT FLOW

SPACE POWER UNIT REACTORS  
 HEAT FLOW  
 USE HEAT TRANSMISSION  
 HEAT FLUX  
 3304  
 (HEAT ENERGY TRANSMISSION RATE)  
 UP SOLAR HEAT FLOW  
 BT FLUX (RATE)  
 #RATES (PER-TIME)  
 RT FLUX DENSITY  
 HEAT GENERATION  
 HEAT TRANSFER COEFFICIENTS  
 HEAT TRANSMISSION  
 SOLAR FLUX  
 HEAT GAIN  
 USE #HEATING  
 HEAT GENERATION  
 1503 2205 3304  
 (EXCLUDES BIOLOGICAL PRODUCTION OF HEAT)  
 RT #COMBUSTION  
 DIRECT POWER GENERATORS  
 GENERATION  
 HEAT FLUX  
 #HEATING  
 #HEATING EQUIPMENT  
 HEAT MEASUREMENT  
 1408  
 UP CALORIMETRY  
 RT BOLOMETERS  
 BOMB CALORIMETERS  
 CALORIMETERS  
 DROP CALORIMETERS  
 ENTHALPY  
 FLAME CALORIMETERS  
 HEAT TRANSMISSION  
 MEASUREMENT  
 HEAT OF COMBUSTION  
 0602 3301 3303  
 UP COMBUSTION HEAT  
 BT #CHEMICAL PROPERTIES  
 THERMOCHEMICAL PROPERTIES  
 #THERMODYNAMIC PROPERTIES  
 RT COMBUSTION PHYSICS  
 GUNS (ORDNANCE)  
 HEAT OF FORMATION  
 HEAT OF DISSOCIATION  
 0602 0603  
 BT HEAT  
 SPECIFIC HEAT  
 THERMODYNAMIC PROPERTIES  
 RT CHEMICAL EQUILIBRIUM  
 EQUILIBRIUM  
 HEAT OF VAPORIZATION  
 REACTION KINETICS  
 THERMAL DISSOCIATION  
 THERMOCHEMISTRY  
 THERMODYNAMIC EQUILIBRIUM  
 HEAT OF FORMATION  
 0603 2311 2404 3304  
 UP FORMATION HEAT  
 BT #CHEMICAL PROPERTIES  
 THERMOCHEMICAL PROPERTIES  
 #THERMODYNAMIC PROPERTIES  
 RT HEAT OF COMBUSTION  
 HEAT OF SOLUTION  
 0601 0603  
 BT #CHEMICAL PROPERTIES  
 SPECIFIC HEAT  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT MOLECULAR ENERGY LEVELS  
 THERMAL ENERGY  
 THERMOCHEMISTRY  
 THERMODYNAMICS  
 HEAT OF VAPORIZATION  
 1203 1408 3303  
 UP VAPORIZATION HEAT  
 BT #CHEMICAL PROPERTIES  
 THERMOCHEMICAL PROPERTIES  
 #THERMODYNAMIC PROPERTIES  
 RT HEAT OF DISSOCIATION  
 VAPORIZING  
 HEAT PIPES  
 3303  
 (EXCLUDES PIPES AND TUBES USED FOR THE TRANSMISSION OF HEATED LIQUIDS OR GASES)  
 RT HEAT SINKS  
 HEAT TRANSFER  
 HEAT TRANSMISSION

HEAT PUMPS  
 0303 0504 3303 3304  
 RT AIR CONDITIONING  
 AIR CONDITIONING EQUIPMENT  
 CONDENSERS (LIQUIFIERS)  
 COOLING SYSTEMS  
 HEAT EXCHANGERS  
 HEAT SINKS  
 #HEATING EQUIPMENT  
 #PUMPS  
 REFRIGERATING MACHINERY  
 THERMOELECTRIC COOLING  
 HEAT RADIATORS  
 3303 3304  
 UP CONDENSER RADIATORS  
 HEAT REJECTION DEVICES  
 NT SPACECRAFT RADIATORS  
 RT BLACK BODY RADIATION  
 #COOLING  
 COOLING PINS  
 COOLING SYSTEMS  
 HEAT SINKS  
 #HEATING EQUIPMENT  
 INSULATED STRUCTURES  
 RADIATIVE HEAT TRANSFER  
 RADIATORS  
 STEFAN-BOLTZMANN LAW  
 HEAT REGULATION  
 USE TEMPERATURE CONTROL  
 HEAT REJECTION DEVICES  
 USE HEAT RADIATORS  
 HEAT RESISTANCE  
 USE THERMAL RESISTANCE  
 HEAT RESISTANT ALLOYS  
 1701 1704 3303 3304  
 UP HIGH TEMPERATURE ALLOYS  
 SUPERALLOYS  
 NT MOLYBDENUM ALLOYS  
 NIMONIC ALLOYS  
 NIOBIUM ALLOYS  
 OSMIUM ALLOYS  
 REFRACTORY METAL ALLOYS  
 RENE 41  
 RENE 63  
 RENE 77  
 RHENIUM ALLOYS  
 TANTALUM ALLOYS  
 TUNGSTEN ALLOYS  
 UDIMET ALLOYS  
 WASPALOY  
 BT #ALLOYS  
 RT CERMETS  
 CHROMIUM ALLOYS  
 COBALT ALLOYS  
 NICKEL ALLOYS  
 REFRACTORY METALS  
 HEAT SHIELDING  
 1704 1805 3304  
 UP THERMAL SHIELDING  
 NT REENTRY SHIELDING  
 BT #SHIELDING  
 RT ABLATION  
 ABLATIVE MATERIALS  
 ABLATIVE NOSE CONES  
 #COOLING  
 HEAT  
 HEAT SINKS  
 HEAT TRANSFER  
 HEAT TRANSMISSION  
 INSULATED STRUCTURES  
 PYROLYTIC GRAPHITE  
 SOLAR REFLECTORS  
 SPACECRAFT SHIELDING  
 TEMPERATURE CONTROL  
 THERMAL CONTROL COATINGS  
 THERMAL INSULATION  
 THERMAL PROTECTION  
 HEAT SINKS  
 2203 3303 3304  
 BT SINKS  
 RT ABLATIVE MATERIALS  
 ABSORBERS (MATERIALS)  
 COOLING SYSTEMS  
 ENDOTHERMIC REACTIONS  
 #ENERGY ABSORPTION  
 HEAT  
 HEAT PIPES  
 HEAT PUMPS  
 HEAT RADIATORS  
 HEAT SHIELDING  
 HEAT SOURCES  
 REENTRY SHIELDING

# NASA THESAURUS (ALPHABETICAL LISTING)

REGENERATORS  
 THERMAL ABSORPTION  
 THERMAL INSULATION  
 HEAT SOURCES  
 0301 0303 3304  
 UP HYDRAULIC HEATING SOURCES  
 RT ENERGY SOURCES  
 ENERGY STORAGE  
 #ENGINES  
 HEAT SINKS  
 LASER HEATING  
 LIGHT SOURCES  
 POWER SUPPLIES  
 RADIATION SOURCES  
 THERMODYNAMIC EFFICIENCY  
 HEAT STORAGE  
 0301 0302 0602 3303 3304  
 UP THERMAL ENERGY STORAGE  
 BT ENERGY STORAGE  
 RT HEAT  
 HEAT STROKE  
 0404 0405 0408  
 RT HEAT TOLERANCE  
 HEAT TESTS  
 USE HIGH TEMPERATURE TESTS  
 HEAT TOLERANCE  
 0408 0602 1704 3304  
 UP HEAT ACCLIMATIZATION  
 BT TOLERANCES (PHYSIOLOGY)  
 RT BODY TEMPERATURE  
 COLD TOLERANCE  
 HEAT STROKE  
 HUMAN TOLERANCES  
 HEAT TRANSFER  
 3303  
 (HEAT TRANSMISSION ACROSS AN  
 UP DIABATIC PROCESSES  
 NT AERODYNAMIC HEAT TRANSFER  
 CONDUCTIVE HEAT TRANSFER  
 CONVECTIVE HEAT TRANSFER  
 HYPERSONIC HEAT TRANSFER  
 LAMINAR HEAT TRANSFER  
 RADIATIVE HEAT TRANSFER  
 SUPERSONIC HEAT TRANSFER  
 TURBULENT HEAT TRANSFER  
 BT HEAT TRANSMISSION  
 #TRANSMISSION  
 RT ADVECTION  
 ATMOSPHERIC HEAT BUDGET  
 BATHS  
 BOILING  
 BOUSSINESQ APPROXIMATION  
 CHEMICAL ENGINEERING  
 COMPRESSIBILITY EFFECTS  
 CONDUCTION  
 #COOLING  
 COUNTERFLOW  
 DIFFUSE RADIATION  
 DIMENSIONLESS NUMBERS  
 ENERGY TRANSFER  
 FILM BOILING  
 FILM CONDENSATION  
 FLAT PLATES  
 FLUID BOUNDARIES  
 FORCED CONVECTION  
 GAS-LIQUID INTERACTIONS  
 GAS-SOLID INTERFACES  
 GAS TRANSPORT  
 HEAT  
 HEAT EXCHANGERS  
 HEAT PIPES  
 HEAT SHIELDING  
 HEAT TRANSFER COEFFICIENTS  
 #HEATING  
 HOT SURFACES  
 LEIDENFROST PHENOMENON  
 LEWIS NUMBERS  
 LIQUID-LIQUID INTERFACES  
 LIQUID-SOLID INTERFACES  
 LIQUID-VAPOR INTERFACES  
 MASS TRANSFER  
 MECHANICAL ENGINEERING  
 METAL VAPORS  
 NONGRAY GAS  
 NUCLEATE BOILING  
 NUSSELT NUMBER  
 PECLET NUMBER  
 PRANDTL NUMBER  
 RADIATIVE TRANSFER  
 RAYLEIGH EQUATIONS  
 STANTON NUMBER  
 TEMPERATURE PROFILES

# NASA THESAURUS (ALPHABETICAL LISTING)

THERMAL DIFFUSION  
THERMAL EXPANSION  
THERMAL INSULATION  
THERMAL POLLUTION  
THERMODYNAMICS  
TRANSPERRING  
#TRANSPORT PROPERTIES  
HEAT TRANSFER COEFFICIENTS  
3303 3304  
(HEAT FLUX PER UNIT AREA PER UNIT  
BT #COEFFICIENTS  
RT ACCOMMODATION COEFFICIENT  
EVAPORATION RATE  
HEAT  
HEAT FLUX  
HEAT TRANSFER  
HEAT TRANSMISSION  
#HEATING  
MASS FLOW FACTORS  
NUCLEATE BOILING  
HEAT TRANSMISSION  
1202 1203 3303 3304  
UP HEAT FLOW  
NT AERODYNAMIC HEAT TRANSFER  
CONDUCTIVE HEAT TRANSFER  
CONVECTIVE HEAT TRANSFER  
HEAT TRANSFER  
HYPERSONIC HEAT TRANSFER  
LAMINAR HEAT TRANSFER  
RADIATIVE HEAT TRANSFER  
SUPERSONIC HEAT TRANSFER  
TURBULENT HEAT TRANSFER  
BT #TRANSMISSION  
RT ADIABATIC EQUATIONS  
ANNULAR FLOW  
CONVECTION  
CONVECTIVE FLOW  
DIFFERENTIAL THERMAL ANALYSIS  
DUCTED FLOW  
EQUILIBRIUM FLOW  
FLOW  
#FLUID FLOW  
GEOPHYSICS  
HEAT  
HEAT BUDGET  
HEAT EXCHANGERS  
HEAT FLUX  
HEAT MEASUREMENT  
HEAT PIPES  
HEAT SHIELDING  
HEAT TRANSFER COEFFICIENTS  
MASS FLOW FACTORS  
NONEQUILIBRIUM FLOW  
POTENTIAL FLOW  
RADIAL FLOW  
RADIATIVE TRANSFER  
STEADY FLOW  
THERMAL INSULATION  
UNIFORM FLOW  
UNSTEADY FLOW  
WALL FLOW  
#HEAT TREATMENT  
1704  
RT ANNEALING  
MARAGING  
NITRIDING  
NORMALIZING (HEAT TREATMENT)  
PULSE HEATING  
STRESS RELIEVING  
TEMPERING  
RT AGING (METALLURGY)  
#ALLOYS  
BAKING  
CRITICAL TEMPERATURE  
FORGING  
FURNACES  
GRAPHITIZATION  
HARDENERS  
#HARDENING (MATERIALS)  
#HEATING  
HARTENSITE  
METALLURGY  
MICROSTRUCTURE  
NUCLEATION  
PHASE DIAGRAMS  
PRECIPITATION HARDENING  
QUENCHING (COOLING)  
RECRYSTALLIZATION  
SALT BATHS  
SOAKING  
STABILIZATION  
SUPERCOOLING

SUPERSATURATION  
TEMPER (METALLURGY)  
TEMPERATURE DISTRIBUTION  
THERMOCHEMISTRY  
TREATMENT  
HEATERS  
0504 0905 3304  
(USE OF A MORE SPECIFIC TERM IS  
RT DEICERS  
DEICING  
#ELECTRON TUBES  
#HEATING EQUIPMENT  
VAPORIZERS  
#HEATING  
1504 3303  
UP HEAT GAIN  
PREHEATING  
REHEATING  
THERMOCOMPRESSION  
WARNING  
NT AERODYNAMIC HEATING  
ARC HEATING  
ATMOSPHERIC HEATING  
BAKING  
BASE HEATING  
GAS HEATING  
INDUCTION HEATING  
IONOSPHERIC HEATING  
KINETIC HEATING  
LASER HEATING  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
PASTEURIZING  
PLASMA HEATING  
PULSE HEATING  
RADIANT HEATING  
RADIO FREQUENCY HEATING  
RESISTANCE HEATING  
SHOCK HEATING  
SOLAR HEATING  
SUPERHEATING  
TRANSIENT HEATING  
RT AIR CONDITIONING  
ANNEALING  
AUTOCLAVING  
BOILING  
CEMENTATION  
CONDUCTION  
CONVECTION  
#COOLING  
DEPROSTING  
ENVIRONMENTAL ENGINEERING  
HEAT  
HEAT EXCHANGERS  
HEAT GENERATION  
HEAT TRANSFER  
HEAT TRANSFER COEFFICIENTS  
#HEAT TREATMENT  
#HEATING EQUIPMENT  
HILSCH TUBES  
ICE PREVENTION  
JACKETS  
MELTING  
RADIATION  
ROASTING  
SINTERING  
SOAKING  
#TEMPERATURE  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
THERMAL CYCLING TESTS  
THERMAL SHOCK  
THERMAL STRESSES  
VAPORIZING  
#HEATING EQUIPMENT  
0504 3304  
UP GERDIER ARC HEATERS  
PREHEATERS  
RT BOILERS  
EVAPORATORS  
FURNACES  
IMAGE FURNACES  
OVENS  
SOLAR FURNACES  
VACUUM FURNACES  
VAPORIZERS  
RT AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
CRUCIBLES  
DEICERS  
DEICING  
ELECTRIC EQUIPMENT  
EQUIPMENT

# HEF (HIGH ENERGY FUELS)

FUEL TANKS  
HEAT  
HEAT EXCHANGERS  
HEAT GENERATION  
HEAT PUMPS  
HEAT RADIATORS  
HEATERS  
#HEATING  
#ONBOARD EQUIPMENT  
TEMPERATURE CONTROL  
THERMAL INSULATION  
HEAVING  
0101 0201 1504 3407  
RT BENDING  
BOWS  
BUCKLING  
DISPLACEMENT  
DISTORTION  
FLEXING  
MOTION  
PITCH (INCLINATION)  
WARPAGE  
HEAVY COSMIC RAY PRIMARIES  
USE HEAVY NUCLEI  
PRIMARY COSMIC RAYS  
#HEAVY ELEMENTS  
0602 2401  
NT AMERICIUM  
AMERICIUM ISOTOPES  
AMERICIUM 241  
BERKELIUM  
CALIFORNIUM  
CALIFORNIUM ISOTOPES  
CURIUM  
CURIUM ISOTOPES  
CURIUM 242  
CURIUM 244  
EINSTEINIUM  
FERMIUM  
LAWRENCIUM  
MENDELEVIUM  
NEPTUNIUM  
NOBELIUM  
PLUTONIUM  
PLUTONIUM ISOTOPES  
PLUTONIUM 238  
PLUTONIUM 239  
PLUTONIUM 240  
PLUTONIUM 241  
TRANSURANUM ELEMENTS  
RT #CHEMICAL ELEMENTS  
HEAVY IONS  
0602 2401  
BT #IONS  
RT ISOTOPE SEPARATION  
ISOTOPES  
HEAVY NUCLEI  
0602 2401  
UP HEAVY COSMIC RAY PRIMARIES  
BT NUCLEI (NUCLEAR PHYSICS)  
RT PRIMARY COSMIC RAYS  
HEAVY WATER  
0602 0603 1804 2401  
UP DEUTERIUM OXIDES  
HYDROGEN DEUTERIUM OXIDE  
BT #CHALCOGENIDES  
DEUTERIUM COMPOUNDS  
#HYDROGEN COMPOUNDS  
OXIDES  
WATER  
RT DEUTERIUM  
MODERATORS  
TRITIUM  
HEAVY WATER COMPONENTS TEST REACTORS  
1108 2204  
BT HEAVY WATER REACTORS  
LIQUID COOLED REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
WATER COOLED REACTORS  
WATER MODERATED REACTORS  
HEAVY WATER REACTORS  
1108 2204  
NT HEAVY WATER COMPONENTS TEST  
REACTORS  
PLUTONIUM RECYCLE TEST REACTOR  
ZERO POWER REACTOR 2  
BT LIQUID COOLED REACTORS  
#NUCLEAR REACTORS  
WATER COOLED REACTORS  
HEF (HIGH ENERGY FUELS)  
USE HIGH ENERGY FUELS

# HEIGHT

HEIGHT  
1902 3408  
NT SCALE HEIGHT  
BT #DIMENSIONS  
RT ALTITUDE  
DEPTH  
DISTANCE  
GEOPOTENTIAL  
LEVEL  
SLOPES  
HEINKEL AIRCRAFT  
0201 0204  
NT HE-211 AIRCRAFT  
RT AIRCRAFT  
HEINKEL HE-211 AIRCRAFT  
USE HE-211 AIRCRAFT  
HEISENBERG THEORY  
2304 2305 2307  
BT ATOMIC THEORY  
RT ATOMIC EXCITATIONS  
DYSON THEORY  
ENERGY TRANSFER  
THEORIES  
HELICAL ANTENNAS  
0701 0901  
BT ANTENNAS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
RT ANTENNA DESIGN  
MICROWAVE ANTENNAS  
HELICAL FLOW  
1202 2308  
BT #FLUID FLOW  
RT AXISYMMETRIC FLOW  
FLOW GEOMETRY  
MAGNETOHYDRODYNAMIC STABILITY  
THREE DIMENSIONAL FLOW  
HELICAL INDUCERS  
0903 0905  
BT #INTAKE SYSTEMS  
RT FIELD COILS  
PLASMA CONTROL  
HELICAL WINDINGS  
0901 2308 2309  
BT WINDING  
HELICOPTER ATTITUDE INDICATORS  
USE ATTITUDE INDICATORS  
HELICOPTERS  
HELICOPTER CONTROL  
0104 0201 0206 2102  
BT AIRCRAFT CONTROL  
RT #ATTITUDE CONTROL  
#AUTOMATIC CONTROL  
CONTROL  
CONTROLLABILITY  
DIRECTIONAL CONTROL  
#FLIGHT CONTROL  
HELICOPTER PERFORMANCE  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
MANUAL CONTROL  
SPEED CONTROL  
HELICOPTER DESIGN  
0201 0206  
BT AIRCRAFT DESIGN  
RT COMPOUND HELICOPTERS  
COMPUTERIZED DESIGN  
DESIGN  
ENGINE DESIGN  
PRODUCT DEVELOPMENT  
STREAMLINING  
STRUCTURAL DESIGN  
HELICOPTER ENGINES  
0206 2801  
RT JET ENGINES  
PTL-6 ENGINE  
T-53 ENGINE  
T-55 ENGINE  
T-58 ENGINE  
T-63 ENGINE  
T-76 ENGINE  
T-58-G2-8B ENGINE  
HELICOPTER PERFORMANCE  
0201 0206  
BT AIRCRAFT PERFORMANCE  
RT AERODYNAMIC STABILITY  
AIRCRAFT RELIABILITY  
CONTROLLABILITY  
FLIGHT CHARACTERISTICS  
HELICOPTER CONTROL  
MANEUVERABILITY

HELICOPTER PROPELLER DRIVE  
0104 0206  
BT #MECHANICAL DRIVES  
PROPELLER DRIVE  
RT JET PROPULSION  
ROTARY WINGS  
TILTED PROPELLERS  
VARIABLE PITCH PROPELLERS  
HELICOPTER ROTORS  
USE ROTARY WINGS  
HELICOPTER WAKES  
0104 0206  
BT AIRCRAFT WAKES  
#WAKES  
RT DOWNWASH  
HELICOPTERS  
0206  
UP DRONE HELICOPTERS  
GYROPLANES  
HELICOPTER ATTITUDE INDICATORS  
NT ALOUETTE HELICOPTERS  
BO-105 HELICOPTER  
BO P-310 HELICOPTER  
CH-3 HELICOPTER  
CH-21 HELICOPTER  
CH-34 HELICOPTER  
CH-46 HELICOPTER  
CH-47 HELICOPTER  
CH-54 HELICOPTER  
COMPOUND HELICOPTERS  
F-28 HELICOPTER  
FIAT 7002 HELICOPTER  
GRASSHOPPER HELICOPTER  
H-17 HELICOPTER  
H-19 HELICOPTER  
H-25 HELICOPTER  
H-43 HELICOPTER  
H-53 HELICOPTER  
H-54 HELICOPTER  
H-56 HELICOPTER  
HC-3 HELICOPTER  
HH-43 HELICOPTER  
HILLER 1123 HELICOPTER  
KH-4 HELICOPTER  
MILITARY HELICOPTERS  
NH-41 HELICOPTER  
OH-4 HELICOPTER  
OH-5 HELICOPTER  
OH-6 HELICOPTER  
OH-13 HELICOPTER  
OH-23 HELICOPTER  
P-531 HELICOPTER  
QH-50 HELICOPTER  
RIGID ROTOR HELICOPTERS  
S-61 HELICOPTER  
SA-330 HELICOPTER  
SA-3210 HELICOPTER  
SE-3160 HELICOPTER  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
SH-34 HELICOPTER  
SIEMETZKI T-3 HELICOPTER  
SIKORSKY WHIRLWIND HELICOPTER  
TANDEM ROTOR HELICOPTERS  
TH-55 HELICOPTER  
UH-1 HELICOPTER  
UH-2 HELICOPTER  
UH-34 HELICOPTER  
V-2 HELICOPTER  
WESTLAND WHIRLWIND HELICOPTER  
WF S-64 HELICOPTER  
XH-51 HELICOPTER  
YV-9A AIRCRAFT  
BT ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
RT AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
HELIPORTS  
MILITARY AIRCRAFT  
RECOVERY VEHICLES  
SHORT TAKEOFF AIRCRAFT  
SUBSONIC AIRCRAFT  
UTILITY AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
HELIO AIRCRAFT  
0201 0207  
UP HELIO MILITARY AIRCRAFT  
NT U-10 AIRCRAFT  
RT AIRCRAFT  
HELIO MILITARY AIRCRAFT  
USE HELIO AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

HELIOCENTRIC ORBITS  
USE SOLAR ORBITS  
HELIOGRAPHS  
USE SPECTROHELIOGRAPHS  
HELIOGRAPHY  
USE SPECTROHELIOGRAPHS  
HELIOGRAPHY  
USE SOLAR MAGNETIC FIELD  
HELIONETISM  
USE SOLAR MAGNETIC FIELD  
HELIOMETERS  
3001 1406  
UP HELIOMETRY  
NT PYROHELIOMETERS  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
#TELESCOPES  
HELIOMETRY  
USE HELIOMETERS  
PYROHELIOMETERS  
HELIPORTS  
0206 1101  
BT AIRPORTS  
RT AIR TRAFFIC CONTROL  
AIRPORT PLANNING  
AIRPORT TOWERS  
HANGARS  
HELICOPTERS  
#LANDING AIDS  
LANDING SITES  
MILITARY AIR FACILITIES  
#NAVIGATION AIDS  
SOLAR COMPASSES  
#V/STOL AIRCRAFT  
HELITRONS  
0905 2402 2403  
RT CARCINOTRONS  
HELIUM  
0603 1807  
NT HELIUM ATOMS  
HELIUM FILM  
HELIUM ISOTOPES  
LIQUID HELIUM  
BT #CHEMICAL ELEMENTS  
#GASES  
RARE GASES  
RT HELIUM AFTERGLOW  
HELIUM AFTERGLOW  
1308 3009  
BT AFTERGLOWS  
RT HELIUM  
HELIUM PLASMA  
HELIUM ATOMS  
0603 2401  
BT #CHEMICAL ELEMENTS  
#GASES  
HELIUM  
RARE GASES  
HELIUM COMPOUNDS  
0603 1804  
RT RARE GAS COMPOUNDS  
HELIUM FILM  
0603 1802  
BT #CHEMICAL ELEMENTS  
#GASES  
HELIUM  
RARE GASES  
RT FILMS  
HELIUM IONS  
2401  
RT ALPHA PARTICLES  
HELIUM ISOTOPES  
2406  
UP HELIUM 2  
HELIUM 3  
HELIUM 4  
LIQUID HELIUM 2  
BT #CHEMICAL ELEMENTS  
#GASES  
HELIUM  
ISOTOPES  
NUCLIDES  
RARE GASES  
HELIUM-NEON LASERS  
1601  
BT GAS LASERS  
LASERS  
#STIMULATED EMISSION DEVICES  
RT LASER MODES  
LASER OUTPUTS  
HELIUM PLASMA  
1807 2401 2502  
BT #PLASMAS (PHYSICS)  
RT ARGON PLASMA

# NASA THESAURUS (ALPHABETICAL LISTING)

ELECTRON PLASMA  
HELIUM AFTERGLOW  
HYDROGEN PLASMA  
#PARTICLES  
HELIUM 2  
2401  
USE HELIUM ISOTOPES  
HELIUM 3  
2401  
USE HELIUM ISOTOPES  
HELIUM 4  
USE HELIUM ISOTOPES  
HELIUM TUBES  
USE TRAVELING WAVE TUBES  
HELIUMS  
USE CURVES (GEOMETRY)  
HELLMANN-FEYNMAN THEOREM  
2401 2404 2405  
BT #THEOREMS  
HELMETS  
0506 0508 3401  
BT #CLOTHING  
PROTECTIVE CLOTHING  
SAFETY DEVICES  
RT ARMOR  
FLIGHT CLOTHING  
GOGGLES  
PRESSURE SUITS  
HELMHOLTZ EQUATIONS  
1902 2310  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT HELMHOLTZ VORTICITY EQUATION  
TIME DEPENDENCE  
WAVE EQUATIONS  
HELMHOLTZ VORTICITY EQUATION  
1202 1204  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
#EQUATIONS OF MOTION  
FLOW EQUATIONS  
HYDRODYNAMIC EQUATIONS  
KINETIC EQUATIONS  
REAL VARIABLES  
RT HELMHOLTZ EQUATIONS  
VORTICITY  
HEMATITE  
1806  
BT #CHALCOGENIDES  
#IRON COMPOUNDS  
IRON ORES  
IRON OXIDES  
METAL OXIDES  
#MINERALS  
OXIDES  
HEMATOCRIT  
0404 0405  
RT BLOOD  
HEMATOCRIT RATIO  
HEMATOCRIT RATIO  
0404 0405 0406  
RT ANEMIAS  
ERYTHROCYTES  
HEMATOCRIT  
HEMATOLOGY  
0403 0405  
RT CARBOXYHEMOGLOBIN TEST  
COOMB TEST  
HEMATOCRIT RATIO  
RETICULOCYTES  
HEMATOPOIESIS  
0404 0406 0411  
BT #ANATOMY  
CARDIOVASCULAR SYSTEM  
#CELLS (BIOLOGY)  
BLOOD  
#PHYSIOLOGICAL EFFECTS  
RADIATION EFFECTS  
HEMATOPOIETIC SYSTEM  
0404 0406 0411  
BT #ANATOMY  
CARDIOVASCULAR SYSTEM  
PHYSIOLOGY  
RT #PHYSIOLOGICAL EFFECTS  
HEMATURIA  
0405  
BT SIGNS AND SYMPTOMS  
RT URINE  
HEMISPHERE CYLINDER BODIES  
1902 3009 3203

RT CYLINDERS  
CYLINDRICAL BODIES  
HEMISPHERICAL SHELLS  
PRESSURE VESSELS  
HEMISPHERES  
1304 1902 2003  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AERODYNAMIC CONFIGURATIONS  
BODIES OF REVOLUTION  
HEMISPHERICAL SHELLS  
NORTHERN HEMISPHERE  
#SOUTHERN HEMISPHERE  
SPHERES  
HEMISPHERICAL SHELLS  
1902 3009 3203  
BT #SHELLS (STRUCTURAL FORMS)  
RT BODIES OF REVOLUTION  
CIRCULAR SHELLS  
DOMES (STRUCTURAL FORMS)  
HEMISPHERE CYLINDER BODIES  
HEMISPHERES  
METAL SHELLS  
REINFORCED SHELLS  
SPHERES  
SPHERICAL SHELLS  
HEMOCYTES  
0404 0405 0406  
BT #CELLS (BIOLOGY)  
RT INVERTEBRATES  
HEMODYNAMIC RESPONSES  
0401 0506  
BT #PHYSIOLOGICAL EFFECTS  
PHYSIOLOGICAL RESPONSES  
#RESPONSES  
RT BLOOD CIRCULATION  
BLOOD PRESSURE  
HEMODYNAMICS  
0404 0408  
RT BLOOD CIRCULATION  
CARDIOVASCULAR SYSTEM  
HEMOGLOBIN  
0403 0404  
NT CARBOXYHEMOGLOBIN  
OXYHEMOGLOBIN  
BT #CELLS (BIOLOGY)  
#ORGANOMETALLIC COMPOUNDS  
RT ANEMIAS  
BLOOD  
CORPUSCLES  
ERYTHROCYTES  
POLYCYTHEMIA  
RETICULOCYTES  
HEMOLYSIS  
0404 0408  
RT COMPLEMENT (BIOLOGY)  
POLYCYTHEMIA  
RETICULOCYTES  
HEMORRHAGES  
0404 0408  
RT PETECHIA  
RT BLEEDING  
BLOOD  
CARDIOVASCULAR SYSTEM  
COAGULATION  
HEMOSTATICS  
HYPOTENSION  
#INJURIES  
PATHOLOGY  
POLYCYTHEMIA  
RETICULOCYTES  
HEMOSTASIS  
USE HEMOSTATICS  
HEMOSTATICS  
0404 0405  
UF HEMOSTASIS  
BT #DRUGS  
RT BLOOD COAGULATION  
FIBRINOGEN  
GIBBERELLINS  
HEMORRHAGES  
THROMBIN  
THROMBOPLASTIN  
HENRY LAW  
1408 2311  
RT #COMPOSITION (PROPERTY)  
PARTIAL PRESSURE  
RAOULT LAW  
SOLUBILITY  
SOLUTIONS  
VAPOR PRESSURE

# HERZBERG BANDS

HEOS A SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESRO SATELLITES  
HEOS SATELLITES  
#SATELLITES  
HEOS B SATELLITE  
3105 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESRO SATELLITES  
HEOS SATELLITES  
#SATELLITES  
HEOS SATELLITES  
3105 3409 3107  
NT HEOS A SATELLITE  
HEOS B SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
ESRO SATELLITES  
#SATELLITES  
RT EUROPEAN SPACE PROGRAMS  
SOLAR ORBITS  
HEPARINS  
0403 0404  
RT ANTICOAGULANTS  
HEPTADIENE  
1808  
BT #ALIPHATIC COMPOUNDS  
DIENES  
#HYDROCARBONS  
HEPTANES  
0603 1808  
BT #ALIPHATIC COMPOUNDS  
ALKANES  
#HYDROCARBONS  
RT HYDROCARBON FUELS  
HERCULES AIRCRAFT  
USE C-130 AIRCRAFT  
HERCULES ENGINE  
2808 2809  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT HONEST JOHN ROCKET VEHICLE  
LITTLE JOHN ROCKET VEHICLE  
HERCULES NOVA  
1901 3001  
BT #CELESTIAL BODIES  
NOVAE  
STARS  
VARIABLE STARS  
HEREDITY  
0404 0408  
RT CONGENITAL ANOMALIES  
CYTOGENESIS  
#EVOLUTION (DEVELOPMENT)  
HERING-BREWER REFLEX  
0405 0408  
BT #REFLEXES  
RT HEART RATE  
HERMETIC SEALS  
1501  
BT SEALS (STOPPERS)  
RT HEADERS  
O RING SEALS  
PUMP SEALS  
HERMITIAN POLYNOMIAL  
1902 2311  
BT #ALGEBRA  
POLYNOMIALS  
RT JACOBI MATRIX METHOD  
MATRICES (MATHEMATICS)  
REAL VARIABLES  
VECTOR SPACES  
HERO REACTOR  
2204  
BT #NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
HERTZSPRUNG-RUSSELL DIAGRAM  
1901 3001  
BT DIAGRAMS  
RT STELLAR EVOLUTION  
STELLAR LUMINOSITY  
STELLAR SPECTRA  
HERZBERG BANDS  
0710 2402  
BT ABSORPTION SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
SPECTRAL BANDS



# #HETEROCYCLIC COMPOUNDS

RT OXYGEN SPECTRA  
SCHUNANN-RUNGE BANDS  
ULTRAVIOLET SPECTRA  
#HETEROCYCLIC COMPOUNDS  
1808  
NT ACETAZOLAMIDE  
ACRIFLAVINE  
ADENINES  
ADENOSINE DIPHOSPHATE (ADP)  
ADENOSINE TRIPHOSPHATE (ATP)  
ADENOSINES  
ALKALOIDS  
ALLOXAN  
ANINOPYRINE  
ANISOLE  
ARECOLINE HYDROBROMIDE  
ASCORBIC ACID  
ATROPINE  
AZINES  
AZOLES  
AZULENE  
BETAINES  
BIOFLAVONOIDS  
BIOTIN  
CAPPEINE  
CARBAZOLES  
CARNITINE  
COLCHICINE  
CYANOCOBALAMIN  
CYANURATES  
CYANURIC ACID  
CYTIDYLIC ACID  
DIMENHYDRINATE  
ENDRIN  
ERGOTAMINE  
FOLIC ACID  
GUANETHIDINE  
GUANINES  
HYOSCINE  
INDOLES  
LYSERGINE  
MECLIZINE  
METHAPYRILENE  
METHYLENE BLUE  
MORPHINE  
NICOTINAMIDE  
NICOTINE  
NICOTINIC ACID  
OXAZOLE  
PHENOTHIAZINES  
PTHALOCYANIN  
PHYLLQUINONE  
PILOCARPINE  
PIPERIDINE  
PROMETHAZINE  
PYRIDOXINE  
PYRROLES  
RDX  
RESERPINE  
RETINENE  
RIBOPOLAVIN  
TETRACYCLINES  
TETRAZOLES  
THIAMINE  
THIAZINE (TRADEMARK)  
THYMIDINE  
THYMINE  
TOCOPHEROL  
TRIMETHADIONE  
TROPYL COMPOUNDS  
TRYPTOPHAN  
URACIL  
URIC ACID  
XANTHINES  
HETERODYNING  
2304 2402  
NT OPTICAL HETERODYNING  
RT AUTODYNES  
DEMODULATION  
INTERMEDIATE FREQUENCY AMPLIFIERS  
MIXING CIRCUITS  
SUPERHETERODYNE RECEIVERS  
HETEROGENEITY  
3408  
RT DEVIATION  
IMPURITIES  
INCLUSIONS  
INHOMOGENEITY  
#RANGE (EXTREMES)  
SAMPLING  
STANDARD DEVIATION  
STATISTICAL TESTS

VARIABILITY  
VARIANCE (STATISTICS)  
HETEROPHORIA  
0401 0404 0405 0408  
UP EXOPHORIA  
RT VISION  
HETEROSPHERE  
1302 1304 2003  
BT #EARTH ATMOSPHERE  
RT CHEMOSPHERE  
EXOSPHERE  
IONOSPHERE  
LOWER ATMOSPHERE  
MAGNETOSPHERE  
THERMOSPHERE  
UPPER ATMOSPHERE  
HETEROTROPHS  
0402 0404 0409  
RT AUTOTROPHS  
#METABOLISM  
#PLANTS (BOTANY)  
HETEROTROPIA  
0404 0408  
RT VISION  
HEURISTIC METHODS  
3406  
RT AUTONATA THEORY  
COMPUTER PROGRAMMING  
#SIMULATION  
HEUS ROCKET ENGINES  
2808  
BT #ENGINES  
ROCKET ENGINES  
RT ROCKET ENGINE CONTROL  
#ROCKET VEHICLES  
HEXADIENE  
1808  
BT #ALIPHATIC COMPOUNDS  
DIENES  
#HYDROCARBONS  
HEXAGONAL CELLS  
1704  
RT CELLS  
#CRYSTAL LATTICES  
HONEYCOMB STRUCTURES  
HEXAGONS  
1902  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
POLYGONS  
HEXAHEDRITE  
2601  
BT #MAGNESIUM COMPOUNDS  
MAGNESIUM SULFATES  
#MINERALS  
SULFATES  
#SULFUR COMPOUNDS  
HEXAMETHONIUM  
1808  
RT AMMONIUM COMPOUNDS  
ANTICONVULSANTS  
HEXAMETHYLENETETRAMINE  
0602 0603  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
HEXAMITROSTILBENE /HNST/  
1808  
RT STILBENE  
HEXENES  
0602 1808  
BT #ALIPHATIC COMPOUNDS  
ALKANES  
ALKENES  
#HYDROCARBONS  
RT CYCLOHEXANE  
HYDROCARBON FUELS  
HEXOGENES (TRADEMARK)  
1808  
BT #ACIDS  
#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
HEXOKINASE  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
ENZYMES  
HEXIOSES  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
SUGARS

# NASA THESAURUS (ALPHABETICAL LISTING)

HEXYL COMPOUNDS  
0602 1808  
BT #ALIPHATIC COMPOUNDS  
ALKYL COMPOUNDS  
HPB-320 AIRCRAFT  
0207  
UP HAMBURGER HPB-320 AIRCRAFT  
BT HAMBURGER AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
HFIR  
USE HIGH FLUX ISOTOPE REACTORS  
HFIR (REACTOR)  
USE HIGH FLUX ISOTOPE REACTORS  
HH-43B HELICOPTER  
USE HH-43 HELICOPTER  
HH-43 HELICOPTER  
0206  
UP HH-43B HELICOPTER  
HUSKIE HELICOPTER  
HELICOPTERS  
BT KAHAN AIRCRAFT  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
HHI HELICOPTER  
USE H-53 HELICOPTER  
HI-LO IGNITERS  
2702 2806 3301  
BT #IGNITERS  
RT SOLID PROPELLANT IGNITION  
HIBERNATION  
0404 0408  
RT #ADAPTATION  
THERMOREGULATION  
HICAT (RADAR TECHNIQUE)  
USE HIGH RESOLUTION COVERAGE ANTENNAS  
HICAT PROJECT  
USE HIGH RESOLUTION COVERAGE ANTENNAS  
HIERARCHIES  
0404 3009 3402 3405 3406  
NT BBGKY HIERARCHY  
DICHOTOMIES  
BT #CLASSIFICATIONS  
HIGH ACCELERATION  
0201 2308 2403 3110  
BT ACCELERATION (PHYSICS)  
#RATES (PER TIME)  
RT ACCELERATION STRESSES (PHYSIOLOGY)  
ACCELERATION TOLERANCE  
HIGH GRAVITY ENVIRONMENTS  
MECHANICAL SHOCK  
MOTION  
SHOCK RESISTANCE  
HIGH ALT TARGET AND BACKGROUND MEASUREMENT  
0702 2102 2103  
UP HITAB PROGRAM  
RT MEASUREMENT  
TARGET ACQUISITION  
HIGH ALTITUDE  
0101 0201 0401 1108 1202 1308  
UP HIGH ALTITUDE FLIGHT  
BT ALTITUDE  
RT SIMULATED ALTITUDE  
SKYHOOK BALLOONS  
UPPER ATMOSPHERE  
HIGH ALTITUDE BALLOONS  
0205 1302 2003 3409  
NT SKYHOOK BALLOONS  
BT BALLOONS  
#EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
RT GAS BAGS  
METEOROLOGICAL BALLOONS  
ROBIN BALLOONS  
ROCKOONS  
HIGH ALTITUDE BREATHING  
0408 1302  
BT RESPIRATION  
RT EMERGENCY LIFE SUSTAINING SYSTEMS  
HIGH ALTITUDE PRESSURE  
HYPOBARIC ATMOSPHERES  
OXYGEN MASKS  
HIGH ALTITUDE ENVIRONMENTS  
0401 0504 1302 2001 2003  
BT #ENVIRONMENTS  
RT ALTITUDE SIMULATION  
ESCAPE CAPSULES  
HIGH ALTITUDE PRESSURE

# **BASA THESAURUS (ALPHABETICAL LISTING)**

HYPOBARIC ATMOSPHERES  
 LOW PRESSURE  
 LOW TEMPERATURE ENVIRONMENTS  
 MOUNTAIN INHABITANTS  
 THERMAL VACUUM TESTS  
 VACUUM CHAMBERS  
 HIGH ALTITUDE FLIGHT  
 USE FLIGHT  
 HIGH ALTITUDE  
 HIGH ALTITUDE NUCLEAR DETECTION  
 0411 1308 1406 2203 3108 3409  
 BT #DETECTION  
 RT SPACE SURVEILLANCE (SPACEBORNE)  
 VELA SATELLITES  
 HIGH ALTITUDE PRESSURE  
 0401 1302 1408  
 BT LOW PRESSURE  
 #PRESSURE  
 RT ATMOSPHERIC PRESSURE  
 HIGH ALTITUDE BREATHING  
 HIGH ALTITUDE ENVIRONMENTS  
 HYPOBARIC ATMOSPHERES  
 VACUUM CHAMBERS  
 HIGH ALTITUDE SOUNDING PROJECTILE  
 USE WASP SOUNDING ROCKET  
 HIGH ALTITUDE TESTS  
 0401 1302 2002 3108  
 BT ALTITUDE TESTS  
 RT BACKGROUND RADIATION  
 FISHBOWL OPERATION  
 FLIGHT TESTS  
 FULL SCALE TESTS  
 TEST VEHICLES  
 TESTS  
 VELA SATELLITES  
 HIGH ASPECT RATIO  
 0101 0102 0104 1902  
 BT ASPECT RATIO  
 #RATIOS  
 HIGH ASPECT RATIO WINGS  
 USE SLENDER WINGS  
 HIGH CURRENT  
 2304 2402  
 BT #ELECTRIC CURRENT  
 RT HIGH VOLTAGES  
 HIGH EFFICIENCY  
 USE #EFFICIENCY  
 HIGH ENERGY  
 USE ENERGY  
 HIGH ENERGY ASTRONOMY OBSERVATORIES  
 USE HEAO  
 HIGH ENERGY ELECTRONS  
 2401 2403  
 BT CHARGED PARTICLES  
 ELECTRONS  
 ELEMENTARY PARTICLES  
 #PARTICLES  
 HIGH ENERGY FUELS  
 2203 2701 2702  
 (HEAT CONTENT GREATER THAN OR EQUAL TO  
 APPROXIMATELY 25,000 BTU/LB)  
 UF HEP (HIGH ENERGY FUELS)  
 BT CHEMICAL FUELS  
 #FUELS  
 RT #ADDITIVES  
 #BORON COMPOUNDS  
 CATALYSTS  
 CRYOGENIC ROCKET PROPELLANTS  
 HIGH ENERGY OXIDIZERS  
 HIGH ENERGY PROPELLANTS  
 HYBRID PROPELLANTS  
 HYDROCARBON FUELS  
 HIGH ENERGY INTERACTIONS  
 2308 2405  
 BT #NUCLEAR REACTIONS  
 RT ANNIHILATION REACTIONS  
 FISSION PRODUCTS  
 INTERACTIONS  
 NUCLEAR EXPLOSIONS  
 NUCLEAR FISSION  
 NUCLEAR FUSION  
 NUCLEAR RADIATION  
 NUCLEAR RESEARCH  
 PAIR PRODUCTION  
 #PARTICLE INTERACTIONS  
 PARTICLE PRODUCTION  
 POMERANCHUK THEOREM  
 THERMONUCLEAR REACTIONS  
 VECTOR DOMINANCE MODEL  
 HIGH ENERGY OXIDIZERS  
 0602 0603  
 BT #OXIDIZERS

RT HIGH ENERGY FUELS  
 HIGH ENERGY PROPELLANTS  
 ROCKET OXIDIZERS  
 HIGH ENERGY PROPELLANTS  
 2701 2702  
 RT DOMINO PROPELLANTS  
 BT #PROPELLANTS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 HIGH ENERGY FUELS  
 HIGH ENERGY OXIDIZERS  
 HIGH TEMPERATURE PROPELLANTS  
 HYBRID PROPELLANTS  
 LIQUID ROCKET PROPELLANTS  
 HIGH EXPLOSIVES  
 USE EXPLOSIVES  
 HIGH FIELD MAGNETS  
 2307 2604  
 UF SUPERMAGNETS  
 BT ELECTROMAGNETS  
 #MAGNETS  
 RT SUPERCONDUCTING MAGNETS  
 HIGH FLUX BEAM REACTORS  
 2203 2204  
 RT HIGH FLUX ISOTOPE REACTORS  
 #NUCLEAR REACTORS  
 HIGH FLUX ISOTOPE REACTORS  
 2201 2203 2204 2406  
 UF HFIR  
 HFIR (REACTOR)  
 BT #NUCLEAR REACTORS  
 RT HIGH FLUX BEAM REACTORS  
 NEUTRON FLUX DENSITY  
 HIGH FREQUENCIES  
 0702 0710 2311 2402 0705 0709 0905 1002  
 BT #FREQUENCIES  
 RT RADIO FREQUENCIES  
 DECAHETRIC WAVES  
 HIGH PASS FILTERS  
 INTERMEDIATE FREQUENCIES  
 LOW FREQUENCY BANDS  
 MAXIMUM USABLE FREQUENCY  
 RING DISCHARGE  
 SHORT WAVE RADIATION  
 SHORT WAVE RADIO TRANSMISSION  
 TOROIDAL DISCHARGE  
 HIGH GAIN  
 0702 1002 3408  
 RT TRANSFER FUNCTIONS  
 HIGH GRAVITY (ACCELERATION)  
 USE HIGH GRAVITY ENVIRONMENTS  
 HIGH GRAVITY ENVIRONMENTS  
 0401 0504 1304 1309  
 UF HIGH GRAVITY (ACCELERATION)  
 BT #ENVIRONMENTS  
 GRAVITATION  
 RT CENTRIFUGES  
 EXTRATERRESTRIAL ENVIRONMENTS  
 HIGH ACCELERATION  
 HUMAN CENTRIFUGES  
 ROTATING ENVIRONMENTS  
 HIGH IMPULSE  
 2308 3110  
 RT FORCE  
 HIGH THRUST  
 IMPULSES  
 #PROPULSION  
 HIGH INTENSITY  
 USE INTENSITY  
 HIGH LATITUDES  
 USE POLAR REGIONS  
 HIGH LIFT DEVICES  
 USE LIFT DEVICES  
 HIGH MELTING COMPOUNDS  
 USE #REFRACTORY MATERIALS  
 HIGH PASS FILTERS  
 0904 2402  
 RT #ELECTRIC FILTERS  
 ELECTROMAGNETIC WAVE FILTERS  
 FILTERS  
 HIGH FREQUENCIES  
 MICROWAVE FILTERS  
 OPTICAL FILTERS  
 HIGH POLYMERS  
 0603 1810  
 RT POLYMERS  
 HIGH PRESSURE  
 1202 1203 1408  
 BT #PRESSURE  
 RT ANTICYCLONES  
 CRITICAL PRESSURE  
 HYPERBARIC CHAMBERS

## **HIGH TEMPERATURE**

LOW PRESSURE  
 SUPERCRITICAL PRESSURES  
 VACUUM  
 HIGH PRESSURE OXYGEN  
 0504 0603 1408  
 BT COMPRESSED GAS  
 OXYGEN  
 RT FIRE PREVENTION  
 SPACECRAFT CABIN ATMOSPHERES  
 HIGH Q  
 USE Q FACTORS  
 HIGH RESISTANCE  
 0101 1001 1202 2304 2311 3303 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #CHEMICAL PROPERTIES  
 ELECTRICAL RESISTANCE  
 FLOW RESISTANCE  
 #MECHANICAL PROPERTIES  
 RUGGEDNESS  
 THERMAL RESISTANCE  
 HIGH RESOLUTION  
 1412 2310  
 BT #RESOLUTION  
 RT ACCURACY  
 ANGULAR RESOLUTION  
 HIGH RESOLUTION COVERAGE ANTENNAS  
 PRECISION  
 HIGH RESOLUTION COVERAGE ANTENNAS  
 0702 0710 0904 2402  
 UF HICAT (RADAR TECHNIQUE)  
 HICAT PROJECT  
 RT HIGH RESOLUTION  
 RADAR ANTENNAS  
 RADAR RESOLUTION  
 HIGH SENSITIVITY  
 USE #SENSITIVITY  
 HIGH SPEED  
 0101 0201 1504 3009  
 UF HIGH SPEED FLIGHT  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT AIRSPEED  
 ESCAPE VELOCITY  
 GROUND SPEED  
 HYPERSONIC SPEED  
 LANDING SPEED  
 LIGHT SPEED  
 RELATIVISTIC VELOCITY  
 ROTOR SPEED  
 SUPERSONIC SPEEDS  
 HIGH SPEED CAMERAS  
 1407 1412  
 NT FRAMING CAMERAS  
 BT CAMERAS  
 #OPTICAL EQUIPMENT  
 #PHOTOGRAPHIC EQUIPMENT  
 RT BALLISTIC CAMERAS  
 FRAME PHOTOGRAPHY  
 ROTATING MIRRORS  
 STROBOSCOPES  
 HIGH SPEED FLIGHT  
 USE FLIGHT  
 HIGH SPEED  
 HIGH STRENGTH  
 1704 1805 3203  
 BT #MECHANICAL PROPERTIES  
 RT COMPRESSIVE STRENGTH  
 SHEAR STRENGTH  
 TENSILE STRENGTH  
 TENSILE STRESS  
 YIELD STRENGTH  
 HIGH STRENGTH ALLOYS  
 1701 1704  
 NT HIGH STRENGTH STEELS  
 MARAGING STEELS  
 BT #ALLOYS  
 RT TENSILE PROPERTIES  
 HIGH STRENGTH STEELS  
 1701 3203  
 NT MARAGING STEELS  
 BT #ALLOYS  
 HIGH STRENGTH ALLOYS  
 IRON ALLOYS  
 STEELS  
 RT CARBON STEELS  
 HIGH TEMPERATURE  
 1408 2311 2502 3304  
 BT #TEMPERATURE  
 RT TEMPERATURE MEASUREMENT

## HIGH TEMPERATURE AIR

## HIGH TEMPERATURE AIR

1301 1408

UF HOT AIR

BT AIR

#GASES

#HIGH TEMPERATURE FLUIDS

HIGH TEMPERATURE GASES

RT HIGH TEMPERATURE ENVIRONMENTS

HIGH TEMPERATURE ALLOYS

USE HEAT RESISTANT ALLOYS

HIGH TEMPERATURE ENVIRONMENTS

0504 0507 1408

BT #ENVIRONMENTS

RT DRY HEAT

HIGH TEMPERATURE AIR

#HIGH TEMPERATURE FLUIDS

HIGH TEMPERATURE GASES

LUNAR TEMPERATURE

THERMAL ENVIRONMENTS

THERMAL FATIGUE

#HIGH TEMPERATURE FLUIDS

0603 1202 3304

NT HIGH TEMPERATURE AIR

HIGH TEMPERATURE GASES

RT FLUIDS

HIGH TEMPERATURE ENVIRONMENTS

HIGH TEMPERATURE LUBRICANTS

HIGH TEMPERATURE PROPELLANTS

HYDRAULIC FLUIDS

#PLASMAS (PHYSICS)

WORKING FLUIDS

HIGH TEMPERATURE GASES

1203 3304

UF HOT GAS SYSTEMS

HOT GASES

HOT JET EXHAUST

NT HIGH TEMPERATURE AIR

BT #GASES

#HIGH TEMPERATURE FLUIDS

COMBUSTION PRODUCTS

HIGH TEMPERATURE ENVIRONMENTS

HIGH TEMPERATURE PLASMAS

IONIZED GASES

PNEUMATIC PROBES

RAREFIED GASES

SHOCK WAVE PROPAGATION

HIGH TEMPERATURE LUBRICANTS

0603 1503 3304

BT LUBRICANTS

RT GAS BEARINGS

GAS LUBRICANTS

#HIGH TEMPERATURE FLUIDS

THERMAL RESISTANCE

HIGH TEMPERATURE MATERIALS

USE #REFRACTORY MATERIALS

HIGH TEMPERATURE NUCLEAR REACTORS

1108 2202 2203 2204 3303

UF LOS ALAMOS TURRET REACTOR

UHTREX (NUCLEAR REACTORS)

GAS COOLED REACTORS

#NUCLEAR REACTORS

NUCLEAR RESEARCH AND TEST REACTORS

RT NUCLEAR PROPULSION

REACTOR DESIGN

REACTOR TECHNOLOGY

REACTORS

HIGH TEMPERATURE PLASMAS

2502

UF HOT PLASMAS

BT CHARGED PARTICLES

#PLASMAS (PHYSICS)

RT BOLTZMANN-VLASOV EQUATION

ELECTRON PLASMA

HIGH TEMPERATURE GASES

#PARTICLES

RELATIVISTIC PLASMAS

THERMAL PLASMAS

HIGH TEMPERATURE PROPELLANTS

2701 2702 3304

BT #PROPELLANTS

RT ELECTROTHERMAL ENGINES

GELLED PROPELLANTS

GELLED ROCKET PROPELLANTS

HIGH ENERGY PROPELLANTS

#HIGH TEMPERATURE FLUIDS

ION PROPULSION

NUCLEAR PROPULSION

PLASMA ENGINES

SOLID PROPELLANTS

STORABLE PROPELLANTS

HIGH TEMPERATURE RESEARCH

0507 1106 3304

BT #RESEARCH

RT #PLASMA GENERATORS

#REFRACTORY MATERIALS

HIGH TEMPERATURE TESTS

1106 1108 3404

UF HEAT TESTS

BT #ENVIRONMENTAL TESTS

RT BOMB CALORIMETERS

CALORIMETERS

#CHEMICAL TESTS

COLD STRENGTH

COLD WEATHER TESTS

CRYOSTATS

DROP CALORIMETERS

FLAME CALORIMETERS

HARDNESS TESTS

LUBRICANT TESTS

MATERIALS TESTS

MELTING POINTS

#NONDESTRUCTIVE TESTS

TEMPERATURE CONTROL

THERMAL EXPANSION

THERMAL RESISTANCE

THERMAL SHOCK

THERMAL STABILITY

#THERMODYNAMIC PROPERTIES

#TRANSPORT PROPERTIES

HIGH THRUST

0101 0201 1202 2311 2801 2808

BT #THRUST

RT HIGH IMPULSE

JET THRUST

LOW THRUST

ROCKET THRUST

THRUST AUGMENTATION

VARIABLE THRUST

HIGH VACUUM

1506

BT #PRESSURE

VACUUM

RT COLD WELDING

LOW VACUUM

RESIDUAL GAS

ULTRAHIGH VACUUM

#VACUUM APPARATUS

HIGH VACUUM ORBITAL SIMULATOR

1107 1108 1506 3009

UF HIVOS (SIMULATOR)

BT ENVIRONMENT SIMULATORS

#SIMULATORS

SPACE SIMULATORS

RT SPACE ENVIRONMENT SIMULATION

HIGH VOLTAGES

2304

RT #ELECTRIC CURRENT

HIGH CURRENT

HIGHLANDS

1305 1306

RT MOUNTAINS

PLATEAUS

TOPOGRAPHY

HIGHWAYS

0506 3203

BT ROADS

RT BRIDGES (STRUCTURES)

CONSTRUCTION

#CRASHES

INTERSECTIONS

PAVEMENTS

RAMPS (STRUCTURES)

RAPID TRANSIT SYSTEMS

STREETS

#TRANSPORTATION

URBAN PLANNING

HIJACKING

USE AIR PIRACY

HILBERT SPACE

1902

NT BANACH SPACE

BT #ALGEBRA

#ANALYSIS (MATHEMATICS)

FUNCTION SPACE

FUNCTIONAL ANALYSIS

METRIC SPACE

VECTOR SPACES

HILBERT TRANSFORMATION

1902

BT #ANALYSIS (MATHEMATICS)

FUNCTIONAL ANALYSIS

INTEGRAL TRANSFORMATIONS

HILL CURVES

USE HILL METHOD

## NASA THESAURUS (ALPHABETICAL LISTING)

## HILL DETERMINANT

1902

BT #ANALYSIS (MATHEMATICS)

RT DIFFERENTIAL EQUATIONS

EIGENVALUES

MATHIEU FUNCTION

HILL LUNAR THEORY

1901 3004 3009

RT EARTH ORBITS

HILL METHOD

ORBITAL MECHANICS

PERTURBATION THEORY

THEORIES

HILL METHOD

1901 1902 3001 3003 3007

UF HILL CURVES

RT EARTH ORBITS

HILL LUNAR THEORY

METHODOLOGY

ORBITAL MECHANICS

PERTURBATION THEORY

HILLER AIRCRAFT

0207

UF HILLER MILITARY AIRCRAFT

RT AIRCRAFT

HILLER 1098 CONVERTAPLANE

0204

BT FAIRCHILD-HILLER AIRCRAFT

#V/STOL AIRCRAFT

HILLER 1123 HELICOPTER

0206

BT FAIRCHILD-HILLER AIRCRAFT

HELICOPTERS

ROTARY WING AIRCRAFT

#V/STOL AIRCRAFT

HILLER MILITARY AIRCRAFT

USE HILLER AIRCRAFT

HILSCH TUBES

1201 1202 1203 1204

UF VORTEX TUBES

RT COAXIAL FLOW

#COOLING

#HEATING

TUBES

VORTEX GENERATORS

VORTICES

HIMALAYAS

1305

BT MOUNTAINS

RT ASIA

HINDERANCE

USE CONSTRAINTS

HINGE MOMENTS

USE TORQUE

RINGED ROTOR BLADES

USE HINGES

ROTARY WINGS

RINGLESS ROTORS

USE RIGID ROTORS

RINGES

1504

UF HINGED ROTOR BLADES

NT FLAPPING HINGES

RT PIVOTS

SWIVELS

HIPPOCAMPUS

0404

BT #ANATOMY

BRAIN

CENTRAL NERVOUS SYSTEM

#NERVOUS SYSTEM

HIPURIC ACID

0403 1808

BT #ACIDS

#ALIPHATIC COMPOUNDS

AMINO ACIDS

#ORGANIC COMPOUNDS

HISS

2301

BT #ATMOSPHERICS

BLACKOUT (PROPAGATION)

#ELECTROMAGNETIC INTERFERENCE

ELECTROMAGNETIC NOISE

IONOSPHERICS

RADIO FREQUENCY INTERFERENCE

HISTAMINES

0403 0405 1808

BT #DRUGS

RT #AMINES

ANTIHISTAMINICS

HISTIDINE

0403 1808

# **WASA THESAURUS (ALPHABETICAL LISTING)**

BT #ACIDS  
#AMINES  
AMINO ACIDS  
#ORGANIC COMPOUNDS

**HISTOGRAMS**  
1902 1905  
BT DISCRETE FUNCTIONS  
GRAPHS (CHARTS)  
NORMAL DENSITY FUNCTIONS

**HISTOLOGY**  
0404 0406  
BT #MEDICAL SCIENCE  
BT EPITHELIUM  
MORPHOLOGY  
PLATELETS

**HISTORIES**  
3403  
BT CASE HISTORIES  
BT DOCUMENTATION  
MUSEUMS  
PALEONTOLOGY  
PEACETIME  
RECORDS

**HITAB PROGRAM**  
USE HIGH ALT TARGET AND BACKGROUND  
MEASUREMENT

**HIVOS (SIMULATOR)**  
USE HIGH VACUUM ORBITAL SIMULATOR

**HL-10 REENTRY VEHICLE**  
3105 3110  
BT #GLIDERS  
#LIFTING BODIES  
LIFTING REENTRY VEHICLES  
#MANEUVERABLE SPACECRAFT  
#REENTRY VEHICLES  
BT HYPERSONIC GLIDERS

**HL-35 REENTRY VEHICLE**  
3105 3110 0101 0104  
BT #HYPERSONIC VEHICLES  
#LIFTING BODIES  
LIFTING REENTRY VEHICLES  
#MANEUVERABLE SPACECRAFT  
#REENTRY VEHICLES  
BT HYPERSONIC GLIDERS

**HMX**  
1808 2403  
UP CYCLOTETRAMETHYLENE TETRANITRAMINE  
TETRANITROTETRAZACYCLOOCTANE  
BT EXPLOSIVES

**HNPF (HALLAM NUCLEAR POWER FACILITY)**  
USE HALLAM NUCLEAR POWER FACILITY

**HO-4 HELICOPTER**  
USE OH-4 HELICOPTER

**HO-5 HELICOPTER**  
USE OH-5 HELICOPTER

**HO-6 HELICOPTER**  
USE OH-6 HELICOPTER

**RODGKINSONITE**  
1805 1806  
BT #MANGANESE COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
#ZINC COMPOUNDS

**HODOGRAPHS**  
1406 2901  
BT CHAPLYGIN EQUATION  
KINEMATICS  
VECTOR SPACES

**HODOSCOPES**  
2402 2902 2903  
BT #MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
BT RADIATION COUNTERS

**HOHLRAUS**  
2402 3303 3304  
BT BLACK BODY RADIATION  
EMISSIVITY

**BOHMANN TRAJECTORIES**  
USE ELLIPTICAL ORBITS  
TRANSFER ORBITS

**BOHMANN TRANSFER ORBITS**  
USE ELLIPTICAL ORBITS  
TRANSFER ORBITS

**HOLDERS**  
1103 1502 1504 3404  
BT FLAME HOLDERS  
BT ANCHORS (FASTENERS)  
BANDS  
BOLTS  
BRACKETS  
CLAMPS

CLIPS  
#FASTENERS  
JIGS  
LATCHES  
LUGS  
MECHANICAL DEVICES  
NUTS  
NUTS (FASTENERS)  
PINS  
POSITIONING DEVICES (MACHINERY)  
RIVETS  
SCREWS  
SPIKES  
SPLINES  
STRAPS  
STUDS (STRUCTURAL MEMBERS)  
ZIPPER

**HOLDING**  
1504 3401 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT CONSTRAINTS  
DELAY  
RETAINING  
STOPPING

**HOLE DISTRIBUTION**  
1704 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT CURRENT DISTRIBUTION  
HOLE DISTRIBUTION (ELECTRONICS)  
HOLE DISTRIBUTION (MECHANICS)

**HOLE DISTRIBUTION (ELECTRONICS)**  
1002  
BT #DISTRIBUTION (PROPERTY)  
BT CHARGE DISTRIBUTION  
CURRENT DISTRIBUTION  
HOLE DISTRIBUTION  
HOLE MOBILITY  
HOLES (ELECTRON DEFICIENCIES)  
SEMICONDUCTORS (MATERIALS)

**HOLE DISTRIBUTION (MECHANICS)**  
1704 3203  
BT #DISTRIBUTION (PROPERTY)  
BT CAVITIES  
HOLE DISTRIBUTION  
PERFORATED SHELLS  
POROSITY  
STRESS CONCENTRATION  
VOID RATIO

**HOLE MOBILITY**  
0602 1704 2603 3203  
BT CARRIER MOBILITY  
#ELECTRICAL PROPERTIES  
MOBILITY  
#TRANSPORT PROPERTIES  
ATOMIC MOBILITIES  
CHARGE CARRIERS  
ELECTROMIGRATION  
ELECTRON MOBILITY  
HOLE DISTRIBUTION (ELECTRONICS)  
HOLES (ELECTRON DEFICIENCIES)  
SOLID STATE PHYSICS

**HOLES**  
0905 1104 2602  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT CAVITIES  
GAPS  
HOLES (ELECTRON DEFICIENCIES)

**HOLES (ELECTRON DEFICIENCIES)**  
1002 2602 2603  
BT CHARGE CARRIERS  
BT ACCEPTOR MATERIALS  
CRYSTAL DEFECTS  
DONOR MATERIALS  
ELECTRONS  
EXCITONS  
HOLE DISTRIBUTION (ELECTRONICS)  
HOLE MOBILITY  
HOLES  
MAJORITY CARRIERS  
MINORITY CARRIERS  
ORDER-DISORDER TRANSFORMATIONS  
P-TYPE SEMICONDUCTORS  
SEMICONDUCTORS (MATERIALS)  
SUHL EFFECT  
VACANCIES (CRYSTAL DEFECTS)

## **HONING DEVICES**

**HOLLAND**  
USE NETHERLANDS

**HOLLOW**  
1305 1306  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT CAVITIES  
RECESSES

**HOLLOW CATHODES**  
0604 0904 0905 2304  
BT CATHODES  
#ELECTRODES  
BT TUBE CATHODES  
TUNNEL CATHODES

**HOLMIUM**  
0603 1703  
BT HOLMIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS

**HOLMIUM ISOTOPES**  
0603 1703  
BT #CHEMICAL ELEMENTS  
HOLMIUM  
ISOTOPES  
NUCLIDES  
RARE EARTH ELEMENTS

**HOLOGRAPHY**  
1407 1601 2402  
BT #IMAGERY  
#PHOTOGRAPHY  
BT COHERENT ELECTROMAGNETIC RADIATION  
COHERENT LIGHT  
DATA STORAGE  
IMAGE CORRELATORS  
KINOPHORM  
LASERS  
SPATIAL FILTERING  
WAVE FRONT RECONSTRUCTION

**HOMOMORPHISM**  
USE ANALYTIC FUNCTIONS

**HOMEOSTASIS**  
0404 0504  
BT ACCLIMATIZATION  
ACID BASE EQUILIBRIUM  
#ADAPTATION  
BODY TEMPERATURE  
COLD TOLERANCE  
COLLOIDS  
EQUILIBRIUM  
FIBRINOGEN  
HORMONES  
#METABOLISM  
#NERVOUS SYSTEM  
OSMOSIS  
PHYSIOLOGY  
RESPIRATORY SYSTEM  
SKIN (ANATOMY)  
#STRESS (PHYSIOLOGY)  
THERMOREGULATION  
THROMBOPLASTIN  
WATER BALANCE

**HOMOTHERMS**  
0402 0404 0408  
BT BODY TEMPERATURE

**HONING**  
0702 0708 0709 1109 2102 3407  
BT AUTOMATIC PILOTS  
BEACONS  
#GUIDANCE (MOTION)  
HONING DEVICES  
MISSILE CONTROL  
RADIO DIRECTION FINDERS  
TERMINAL GUIDANCE

**HONING DEVICES**  
0705 2102 3101  
UP SEEKERS  
BT BEACONS  
#GUIDANCE (MOTION)  
HONING  
INFRARED TRACKING  
#MISSILES  
#NAVIGATION  
#NAVIGATION AIDS  
RADIO BEACONS  
RADIO DIRECTION FINDERS  
RADIO NAVIGATION  
RENDEZVOUS GUIDANCE  
SOLAR COMPASSES  
TRAJECTORY CONTROL

# **HOMODYNE RECEPTION**

## **HOMODYNE RECEPTION**

0702 0705 0710  
RT FREQUENCY SYNCHRONIZATION  
RADIO RECEPTION  
SIGNAL RECEPTION

## **HOMOGENEITY**

3408  
RT ANISOTROPIC MEDIA  
HOMOGENIZING  
SAMPLING  
STATISTICAL TESTS  
UNITY  
VARIANCE (STATISTICS)

## **HOMOGENEOUS TURBULENCE**

1202 1902 2308 3408  
BT #TURBULENCE  
RT #ATMOSPHERIC TURBULENCE  
FLUCTUATION THEORY  
ISOTROPIC TURBULENCE  
LOW LEVEL TURBULENCE  
MAGNETOHYDRODYNAMIC TURBULENCE

## **HOMOGENIZATION**

USE HOMOGENIZING

## **HOMOGENIZING**

3407  
UF HOMOGENIZATION  
BT MIXING  
RT AGITATION  
COLLOIDING  
COMPOUNDING  
DISPERSING  
DISSOLVING  
HOMOGENEITY  
SEPARATION  
SUSPENDING (MIXING)

## **HOMOLOGY**

3408  
UF COHOMOLOGY  
RT ANALOGIES  
MATCHING  
RELATIONSHIPS  
SIMILARITIES  
TOPOLOGY

## **HOMOMORPHISMS**

3408  
NT AUTOMORPHISMS  
MONOIDS  
SUBGROUPS  
BT #ALGEBRA  
GROUP THEORY  
RT FIELD THEORY (ALGEBRA)  
ISOMORPHISM

## **HOMOSPHERE**

1302  
BT #EARTH ATMOSPHERE  
RT CHEMOSPHERE  
IONOSPHERE  
LOWER ATMOSPHERE  
MESOSPHERE  
OZONOSPHERE  
STRATOSPHERE  
THERMOSPHERE  
TROPOSPHERE  
UPPER ATMOSPHERE

## **HOMOTOPY THEORY**

1902  
BT #GEOMETRY  
TOPOLOGY  
RT CURVES (GEOMETRY)  
FIBERS (MATHEMATICS)  
THEORIES

## **HOMOTROPY**

0404 0409

RT SEEDS  
**HONEST JOHN ROCKET VEHICLE**  
2809 3106 3401

BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SURFACE TO SURFACE ROCKETS  
RT ARGO D-4 ROCKET VEHICLE  
ARGO E-5 ROCKET VEHICLE  
EXOS SOUNDING ROCKET  
HERCULES ENGINE  
JASON ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
STRONGARM ROCKET VEHICLE  
TRAILBLAZER 1 REENTRY VEHICLE

## **HONEYCOMB CORES**

3202 3203  
BT CORES  
HONEYCOMB STRUCTURES  
RT CERAMIC HONEYCOMBS

#COMPOSITE STRUCTURES  
LOW DENSITY MATERIALS  
SANDWICH STRUCTURES

## **HONEYCOMB STRUCTURES**

3202  
RT HONEYCOMB CORES  
CELLS  
CERAMIC HONEYCOMBS  
#COMPOSITE STRUCTURES  
HEXAGONAL CELLS  
INSULATION  
LAMINATES  
LOW DENSITY MATERIALS  
METAL FOILS  
POROUS MATERIALS  
SANDWICH STRUCTURES  
STRUCTURES

## **HONEYWELL ADEPT COMPUTER**

0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
**HONEYWELL DDP 116 COMPUTER**  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS

## **HONING**

1504 1704  
RT SCRAPPERS  
SMOOTHING

## **HOOKE'S LAW**

2311 3203  
BT #LAWS  
RT ELASTIC PROPERTIES  
FIBER STRENGTH  
MAXWELL BODIES  
MODULUS OF ELASTICITY  
SHEAR PROPERTIES  
STRESS-STRAIN DIAGRAMS

## **HOOKE'S**

1103 1502 1504 1507  
RT #FASTENERS  
FORKS  
SWIVELS

## **HOOPS**

1504 1902 3203  
RT RING STRUCTURES  
TENSILE STRESS

## **HOPCALITE (TRADEMARK)**

0508 0603 1804  
BT CATALYSTS  
#CHALCOGENIDES  
#MANGANESE COMPOUNDS  
MANGANESE OXIDES  
METAL OXIDES  
OXIDES  
RT AIR PURIFICATION  
CARBON MONOXIDE  
GAS ANALYSIS

## **HOPPERS**

1504  
RT CONTAINERS

## **HORIZON**

1303 1304  
NT RADIO HORIZONS  
RT CELESTIAL SPHERE  
GYRO HORIZONS  
HORIZON SCANNERS  
#RANGE (EXTREMES)

## **HORIZON AIRCRAFT**

USE GY-80 AIRCRAFT  
**HORIZON SCANNERS**  
1404 3006 3107  
UF HORIZON SENSING  
INFRARED HORIZON SCANNERS  
BT #FLIGHT INSTRUMENTS  
#SCANNERS

RT #ATTITUDE CONTROL  
HORIZON  
INFRARED SCANNERS  
NAVIGATION INSTRUMENTS  
#OPTICAL EQUIPMENT  
PHOTOMETERS  
RADIO HORIZONS  
RADIOMETERS  
SCANNER PROJECT

## **HORIZON SENSING**

USE HORIZON SCANNERS  
**HORIZONTAL PINS**  
USE PINS  
**HORIZONTAL FLIGHT**  
0101 0201 2103

# **NASA THESAURUS (ALPHABETICAL LISTING)**

RT AERODYNAMIC BALANCE  
AIRCRAFT STABILITY  
CLIMBING FLIGHT  
CRUISING FLIGHT  
FLIGHT  
FLIGHT PATHS  
HORIZONTAL SPACECRAFT LANDING  
ROCKET FLIGHT  
SOARING  
TURNING FLIGHT

## **HORIZONTAL SPACECRAFT LANDING**

0104 0201 0203  
BT GLIDE LANDINGS  
#LANDING  
SPACECRAFT LANDING

RT CRASH LANDING  
HORIZONTAL FLIGHT  
PLANETARY LANDING  
SOFT LANDING  
WATER LANDING

## **HORIZONTAL STABILIZERS**

USE STABILIZERS (FLUID DYNAMICS)

## **HORIZONTAL TAIL SURFACES**

0101 0104  
UF HORIZONTAL TAILS  
TAIL PLANES  
BT #AIRFOILS  
#CONTROL SURFACES  
STABILIZERS (FLUID DYNAMICS)  
TAIL SURFACES  
RT AERIAL RUDDERS  
ELEVATORS (CONTROL SURFACES)  
TAIL ASSEMBLIES  
TRAPEZOIDAL TAIL SURFACES

## **HORIZONTAL TAILS**

USE HORIZONTAL TAIL SURFACES

## **HORMONE METABOLISMS**

0404 0408  
BT #METABOLISM  
**HORMONES**  
0403 0404 0408  
NT CORTICOSTEROIDS  
ESTROGENS  
BT ENDOCRINE SECRETIONS  
#SECRETIONS  
RT ENDOCRINE SYSTEMS  
HOMEOSTASIS

## **HORN ANTENNAS**

0901 2402  
BT ANTENNAS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
RT ANTENNA DESIGN  
LENS ANTENNAS  
PARABOLIC ANTENNAS  
RADAR ANTENNAS  
SCHEUNKUNOFF PRINCIPLE  
SIDELOBE REDUCTION  
SLOT ANTENNAS

## **HORNS**

0901 2402  
RT AUDITORY SIGNALS  
SCHWARZSCHILD ANTENNAS  
SIGNALS  
SIRENS  
SOUND GENERATORS  
WARNING  
#WARNING SYSTEMS

## **HORSEPOWER**

2311  
RT PHYSICAL WORK  
POWER  
POWER EFFICIENCY  
WORK

## **HORSES**

0402  
BT #ANIMALS  
MAMMALS  
VERTEBRATES

## **HOSES**

1504  
RT PIPES (TUBES)  
TUBES

## **HOSPITALS**

0405  
RT EVACUATING (TRANSPORTATION)  
#MEDICAL EQUIPMENT

## **HOT AIR**

USE HIGH TEMPERATURE AIR  
**HOT CATHODES**  
0903 2402

# NASA THESAURUS (ALPHABETICAL LISTING)

BT CATHODES  
#ELECTRODES  
TUBE CATHODES  
RT BAYARD-ALPERT IONIZATION GAGES  
IONIZATION GAGES  
THERMIONIC CATHODES  
HOT CYCLE PROPULSION SYSTEM  
USE TIP DRIVEN ROTORS  
HOT ELECTRONS  
2401 2403  
BT CHARGED PARTICLES  
ELECTRONS  
ELEMENTARY PARTICLES  
#PARTICLES  
HOT EXTRUDING  
USE EXTRUDING  
HOT-FILM ANEMOMETERS  
1203 1406 1408  
BT ANEMOMETERS  
#DISPLAY DEVICES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
SPEED INDICATORS  
FLOW MEASUREMENT  
HOT-WIRE ANEMOMETERS  
METEOROLOGICAL INSTRUMENTS  
SONIC ANEMOMETERS  
VELOCITY MEASUREMENT  
#WIND (METEOROLOGY)  
WIND MEASUREMENT  
WIND VANES  
WIND VELOCITY  
WIND VELOCITY MEASUREMENT  
HOT FORGING  
USE HOT WORKING  
HOT GAS SYSTEMS  
USE HIGH TEMPERATURE GASES  
HOT GASES  
USE HIGH TEMPERATURE GASES  
HOT JET EXHAUST  
USE HIGH TEMPERATURE GASES  
JET EXHAUST  
HOT JETS  
USE JET FLOW  
HOT MACHINING  
0602 1504 1704 3404  
BT #MACHINING  
HOT PLASMAS  
USE HIGH TEMPERATURE PLASMAS  
HOT PRESSING  
1504 1704 3404  
BT #HARDENING (MATERIALS)  
RT COINING  
COLD PRESSING  
COMPACTING  
FORGING  
#METAL WORKING  
PRESSING  
PRESSING (FORMING)  
SINTERING  
STAMPING  
HOT STARS  
2903 3001 3002  
RT A STARS  
B STARS  
O STARS  
WHITE DWARF STARS  
BT #CELESTIAL BODIES  
STARS  
HOT SURFACES  
3303 3304  
RT HEAT TRANSFER  
SURFACES  
HOT WATER ROCKET ENGINES  
2804 3106  
BT #ENGINES  
ROCKET ENGINES  
HOT WEATHER  
2001 2003  
BT WEATHER  
RT SUMMER  
TROPICAL REGIONS  
HOT-WIRE ANEMOMETERS  
1402 1406 1408 2002 3304  
BT #AIRCRAFT INSTRUMENTS  
ANEMOMETERS  
#DISPLAY DEVICES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
SPEED INDICATORS  
FLOW MEASUREMENT  
PLOWMETERS

HOT-FILM ANEMOMETERS  
METEOROLOGICAL INSTRUMENTS  
VELOCITY MEASUREMENT  
HOT-WIRE PLOWMETERS  
1203 1408 3304  
UP HOT-WIRE TURBULENCE METERS  
BT PLOWMETERS  
#MEASURING INSTRUMENTS  
RT PIRANI GAGES  
PLASMA ELECTRODES  
THERMAL CONDUCTIVITY  
TURBULENCE METERS  
HOT-WIRE TURBULENCE METERS  
USE HOT-WIRE PLOWMETERS  
TURBULENCE METERS  
HOT WORKING  
0602 1704 3404  
UP HOT FORMING  
RT AUSFORMING  
BT #FORMING TECHNIQUES  
RT BULGING  
FORGING  
METAL DRAWING  
METAL SPINNING  
#METAL WORKING  
SHEARING  
HOTSHOT WIND TUNNELS  
1106 1110  
BT HYPERVELOCITY WIND TUNNELS  
#TEST FACILITIES  
WIND TUNNELS  
RT BLOWDOWN WIND TUNNELS  
SHOCK TUBES  
SHOCK TUNNELS  
HOUND DOG MISSILE  
3101 3401  
BT AIR TO SURFACE MISSILES  
#MISSILES  
RT TURBOJET ENGINES  
HOUSINGS  
0506 0507 1106  
RT COWLINGS  
RADOMES  
CONTAINERS  
COVERINGS  
DONES (STRUCTURAL FORMS)  
ENCLOSURE  
ENCLOSURES  
FAIRINGS  
GUARDS (SHIELDS)  
NACELLES  
PERFORATED SHELLS  
#PROTECTION  
PROTECTORS  
PROTUBERANCES  
#SHELLS (STRUCTURAL FORMS)  
#SHIELDING  
WALLS  
HOVERCRAFT  
USE GROUND EFFECT MACHINES  
HOVERCRAFT GROUND EFFECT MACHINES  
0205  
UP HD-1 GROUND EFFECT MACHINES  
BT GROUND EFFECT MACHINES  
RT RESEARCH AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT  
HOVERING  
0201 0205 0206 0209 3407  
RT AERODYNAMIC STABILITY  
FLUTTER  
GROUND EFFECT MACHINES  
HOVERING ROCKET VEHICLES  
#V/STOL AIRCRAFT  
VERTICAL FLIGHT  
HOVERING ROCKET VEHICLES  
3106  
BT #ROCKET VEHICLES  
RT HOVERING  
#SOFT LANDING SPACECRAFT  
HOVERING STABILITY  
0104 0201  
BT AIRCRAFT STABILITY  
#DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
#STABILITY  
RT ATTITUDE STABILITY  
DIRECTIONAL STABILITY  
GYROSCOPIC STABILITY  
LATERAL STABILITY  
LONGITUDINAL STABILITY  
LOW SPEED STABILITY

# HUMAN BEHAVIOR

HOWITZERS  
3302 3401  
BT ARTILLERY  
GUNS (ORDNANCE)  
#WEAPONS  
RT BALLISTICS  
GUN LAUNCHERS  
HP-115 AIRCRAFT  
0207  
UP HANDLEY PAGE HP-115 AIRCRAFT  
BT HANDLEY PAGE AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
TAILLESS AIRCRAFT  
WING PLANFORMS  
RT  
HPRR  
USE HEALTH PHYSICS RESEARCH REACTOR  
HRB-1 HELICOPTER  
USE CH-46 HELICOPTER  
HS-125 AIRCRAFT  
USE DH 125 AIRCRAFT  
HS-748 AIRCRAFT  
0204  
UP AVRO WHITWORTH HS-748 AIRCRAFT  
BT HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TURBOPROP AIRCRAFT  
HS-801 AIRCRAFT  
0204  
BT HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
RT AERIAL RECONNAISSANCE  
OBSERVATION AIRCRAFT  
#PHOTOGRAPHY  
PHOTORECONNAISSANCE  
RECONNAISSANCE AIRCRAFT  
HSS-2 HELICOPTER  
USE SH-3 HELICOPTER  
HU-1 HELICOPTER  
USE UH-1 HELICOPTER  
HUBS  
1504  
UP ROTOR HUBS  
RT SPOKES  
HUECKEL THEORY  
0602 0603 2401 2404  
RT THEORIES  
HUGHES AIRCRAFT  
0207  
UP HUGHES MILITARY AIRCRAFT  
RT H-17 HELICOPTER  
OH-6 HELICOPTER  
TH-55 HELICOPTER  
IV-9A AIRCRAFT  
RT AIRCRAFT  
HUGHES MILITARY AIRCRAFT  
USE HUGHES AIRCRAFT  
HUGONIOT ADIABAT  
USE HUGONIOT EQUATION OF STATE  
HUGONIOT EQUATION OF STATE  
0602 2308 2401  
UP HUGONIOT ADIABAT  
BT EQUATIONS OF STATE  
RT COMPRESSIBLE FLOW  
#LOADS (FORCES)  
ONE DIMENSIONAL FLOW  
SHOCK WAVES  
HULLS (STRUCTURES)  
0102 1103 3202  
RT SHIP HULLS  
RT AIRCRAFT STRUCTURES  
BAYS (STRUCTURAL UNITS)  
BULKHEADS  
FUSELAGES  
HYDROFOILS  
KEELS  
METAL SHELLS  
PERFORATED SHELLS  
SEAPLANES  
#SHELLS (STRUCTURAL FORMS)  
SKIN (STRUCTURAL MEMBER)  
HUM  
0702 0704 0705 2301  
RT ACOUSTICS  
INTERFERENCE  
NOISE  
HUMAN BEHAVIOR  
0408 0410  
BT BEHAVIOR

## HUMAN BEINGS

RT BOREDOM  
DETACHMENT  
DISORDERS  
DITHERS  
EMOTIONS  
EXTROVERSION  
#HUMAN PERFORMANCE  
INTROVERSION  
LETHARGY  
NEUROPSYCHIATRY  
PANIC  
HUMAN BEINGS  
0401 0402 0404 0405 0408 0410 0506  
UP MAN  
BT #ANIMALS  
CHIMPANZEES  
MAMMALS  
VERTEBRATES  
ABORIGINES  
ANTHROPOLOGY  
CHILDREN  
CLINICAL MEDICINE  
FEMALES  
HUMAN FACTORS ENGINEERING  
HUMAN PATHOLOGY  
PARENTS  
PATIENTS  
RACE FACTORS  
RACES  
YOUTH  
HUMAN BODY  
0404 0405 0408 0506 0508  
BT #ANATOMY  
BT #APPENDAGES  
BODIES  
BODY MEASUREMENT (BIOLOGY)  
LIMBS (ANATOMY)  
PHYSIOLOGY  
HUMAN CENTRIFUGES  
0401 0408 0502 0506  
UP PILOTTED CENTRIFUGES  
BT CENTRIFUGES  
RT ACCELERATION TOLERANCE  
ARTIFICIAL GRAVITY  
HIGH GRAVITY ENVIRONMENTS  
HUMAN TOLERANCES  
HUMAN ENGINEERING  
USE HUMAN FACTORS ENGINEERING  
HUMAN FACTORS ENGINEERING  
0408 0504 0505 0506  
UP ERGONOMICS  
HUMAN ENGINEERING  
RT ABILITIES  
AERONAUTICS  
AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
ANTHROPOMETRY  
ARCHITECTURE  
ASTRONAUT MANEUVERING EQUIPMENT  
ASTRONAUT PERFORMANCE  
ASTRONAUTICS  
#BIOENGINEERING  
BIONICS  
BODY MEASUREMENT (BIOLOGY)  
BRIGHTNESS  
COLOR  
COMFORT  
CYBERNETICS  
#EDUCATION  
#EFFICIENCY  
ENVIRONMENTAL ENGINEERING  
#ENVIRONMENTS  
FATIGUE (BIOLOGY)  
FLIGHT STRESS  
GLARE  
HUMAN BEINGS  
HUMAN FACTORS LABORATORIES  
HUMAN PATHOLOGY  
#HUMAN PERFORMANCE  
ILLUMINATING  
LIPE SUPPORT SYSTEMS  
MAN MACHINE SYSTEMS  
MANNED SPACE FLIGHT  
MANUAL CONTROL  
MONOCULAR VISION  
NOISE (SOUND)  
PERFORMANCE  
PILOT ERROR  
PRODUCTION ENGINEERING  
#PSYCHOLOGICAL EFFECTS  
SAFETY DEVICES  
SAFETY MANAGEMENT

SYSTEMS ENGINEERING  
TELEOPERATORS  
VISIBILITY  
VISION  
HUMAN FACTORS LABORATORIES  
0408 0411 0502 0506 1106  
BT #LABORATORIES  
RT ENVIRONMENTAL LABORATORIES  
HUMAN FACTORS ENGINEERING  
HUMAN PATHOLOGY  
0401 0405 0408 0410 0411  
BT PATHOLOGY  
RT HUMAN BEINGS  
HUMAN FACTORS ENGINEERING  
PATIENTS  
#HUMAN PERFORMANCE  
0408 0410 0502 0506  
UP PROFICIENCY MEASUREMENT  
NT ASTRONAUT PERFORMANCE  
BLACKOUT PREVENTION  
OPERATOR PERFORMANCE  
PILOT PERFORMANCE  
RT HUMAN BEHAVIOR  
HUMAN FACTORS ENGINEERING  
HUMAN REACTIONS  
INTRAVEHICULAR ACTIVITY  
MENTAL HEALTH  
MENTAL PERFORMANCE  
PERFORMANCE  
PILOT ERROR  
PSYCHOMOTOR PERFORMANCE  
RACE FACTORS  
#SENSORIMOTOR PERFORMANCE  
HUMAN REACTIONS  
0404 0408 0410 0502 0506  
RT BIOLOGICAL EFFECTS  
BOREDOM  
COMPETITION  
EMOTIONAL FACTORS  
#HUMAN PERFORMANCE  
LAUGHING  
#PHYSIOLOGICAL EFFECTS  
#PSYCHOLOGICAL EFFECTS  
PSYCHOMOTOR PERFORMANCE  
REACTION  
REACTION TIME  
#SENSORIMOTOR PERFORMANCE  
UPSETTING  
VACILLATION  
HUMAN TOLERANCES  
0405 0408 0411 0506 0508  
BT TOLERANCES (PHYSIOLOGY)  
RT ACCELERATION  
ACCELERATION TOLERANCE  
DIVING (UNDERWATER)  
HEAT TOLERANCE  
HUMAN CENTRIFUGES  
NOISE TOLERANCE  
ORTHOSTATIC TOLERANCE  
RADIATION TOLERANCE  
TOLERANCES (PHYSIOLOGY)  
HUMAN WASTES  
0302 0403 0505 0507  
NT FECES  
URINE  
BT METABOLIC WASTES  
#WASTES  
RT AIR POLLUTION  
ENVIRONMENT POLLUTION  
EXCRETION  
#POLLUTION  
SEWAGE  
WASTE DISPOSAL  
HUMASON COMET  
3001 3005  
BT #CELESTIAL BODIES  
COMETS  
HUMERUS  
0404  
RT ARM (ANATOMY)  
ELBOW (ANATOMY)  
HUMIDITY  
1203 1301 2003  
RT AIR CONDITIONING  
ATMOSPHERIC DENSITY  
ATMOSPHERIC MOISTURE  
BODY TEMPERATURE  
CLIMATOLOGY  
COMFORT  
CORROSION  
DEHUMIDIFICATION  
DROP SIZE

## NASA THESAURUS (ALPHABETICAL LISTING)

DRY HEAT  
#ENVIRONMENTS  
HYGROMETERS  
LAPSE RATE  
METEOROLOGICAL PARAMETERS  
#METEOROLOGY  
MOISTURE  
MOISTURE CONTENT  
MOISTURE METERS  
PERSPIRATION  
PRECIPITATION (METEOROLOGY)  
PSYCHROMETERS  
REFRIGERATING  
#TEMPERATURE  
VAPOR PRESSURE  
WATER  
WATER VAPOR  
WEATHER FORECASTING  
HUMIDITY MEASUREMENT  
1408 2002 2003  
RT HYGROMETERS  
MEASUREMENT  
METEOROLOGICAL INSTRUMENTS  
MOISTURE METERS  
PSYCHROMETERS  
HUNTINGBIRD AIRCRAFT  
USE XV-4 AIRCRAFT  
HUNGARY  
1305  
RT EUROPE  
NATIONS  
HUNTER F-2 AIRCRAFT  
USE F-2 AIRCRAFT  
HUNTING H-126 AIRCRAFT  
USE H-126 AIRCRAFT  
HUNTING P-84 AIRCRAFT  
USE JET PROVOST AIRCRAFT  
HURRICANES  
1301 2003  
NT ANNA HURRICANE  
BT CYCLONES  
#STORMS  
STORMS (METEOROLOGY)  
TROPICAL STORMS  
RT #METEOROLOGY  
TORNADOES  
TYPHOONS  
HUS-1 HELICOPTER  
USE UH-34 HELICOPTER  
HUSKIE HELICOPTER  
USE HH-43 HELICOPTER  
HOSTLER AIRCRAFT  
USE B-58 AIRCRAFT  
HUYGENS PRINCIPLE  
0710 1202 2311  
RT DIFFRACTION  
OPTICS  
POINT SOURCES  
#REFRACTION  
#SCATTERING  
SCHRÖDINGER PRINCIPLE  
SPHERICAL WAVES  
WAVE FRONTS  
WAVE PROPAGATION  
HU2K-1 HELICOPTER  
USE UH-2 HELICOPTER  
HVITIS CHONDRITE  
3005  
BT #CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES  
HYBRID COMBUSTION  
USE HYBRID PROPELLANT ROCKET ENGINES  
HYBRID COMPUTERS  
0802 0804  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
RT ANALOG COMPUTERS  
DIGITAL COMPUTERS  
HYBRID NAVIGATION SYSTEMS  
2102 2103 2104  
BT #NAVIGATION  
RT #NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
SYSTEMS  
HYBRID PROPELLANT ROCKET ENGINES  
2808 3301  
UP HYBRID COMBUSTION  
NT LITHEGOL ROCKET ENGINES  
BT #ENGINES  
ROCKET ENGINES

# NASA THESAURUS (ALPHABETICAL LISTING)

**RT** BOOSTER ROCKET ENGINES  
 HYBRID ROCKET ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 RESTARTABLE ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 SUSTAINER ROCKET ENGINES  
 VERNIER ENGINES  
**HYBRID PROPELLANTS**  
 2702 2809  
**UF** LITHERGOLIC PROPELLANTS  
**BT** #PROPELLANTS  
**RT** CASE BONDED PROPELLANTS  
 CHEMICAL FUELS  
 CRYOGENIC ROCKET PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 HIGH ENERGY FUELS  
 HIGH ENERGY PROPELLANTS  
 HYPERGOLIC ROCKET PROPELLANTS  
 LIQUID ROCKET PROPELLANTS  
 METAL FUELS  
 METAL PROPELLANTS  
 SOLID PROPELLANT IGNITION  
 SOLID PROPELLANTS  
 SOLID ROCKET PROPELLANTS  
**HYBRID PROPULSION**  
 2808 2809  
**BT** CHEMICAL PROPULSION  
**#**PROPULSION  
**RT** JET ENGINES  
 ROCKET ENGINES  
**HYBRID ROCKET ENGINES**  
 3106  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
**RT** DUCTED ROCKET ENGINES  
 HYBRID PROPELLANT ROCKET ENGINES  
**HYDRATES**  
 0602 1804  
**RT** WATER  
**HYDRATION**  
 0505 0602  
**RT** #CHEMICAL REACTIONS  
 DEHYDRATION  
 HYDROLYSIS  
**HYDRAULIC ACTUATORS**  
 USE ACTUATORS  
 HYDRAULIC EQUIPMENT  
**HYDRAULIC ANALOGIES**  
 1201 1203 1204 2311  
**BT** ANALOGIES  
**RT** COMPUTERIZED SIMULATION  
 FLOW VISUALIZATION  
 FLUERICS  
 FLUIDICS  
 GAS FLOW  
 NUMERICAL FLOW VISUALIZATION  
 WAVE PROPAGATION  
**HYDRAULIC CONTROL**  
 0303 1201 2102  
**UF** ELECTROHYDRAULIC CONTROL  
**RT** #AUTOMATIC CONTROL  
 CONTROL  
 ELECTRONIC CONTROL  
 ENGINE CONTROL  
 FLUID POWER  
 FLUIDICS  
 HYDRAULIC EQUIPMENT  
 HYDRAULICS  
 PNEUMATIC CONTROL  
 REMOTE CONTROL  
 SOLENOID VALVES  
**HYDRAULIC EQUIPMENT**  
 0303  
**UF** HYDRAULIC ACTUATORS  
 HYDRAULIC HEATING SOURCES  
 HYDRAULIC PUMPS  
 HYDRAULIC SYSTEMS  
 HYDRAULIC VALVES  
**NT** AIRCRAFT HYDRAULIC SYSTEMS  
**RT** AIRBORNE EQUIPMENT  
 AUTOMATIC CONTROL VALVES  
 COCKS  
 CUSHIONS  
 EQUIPMENT  
 FLUID AMPLIFIERS  
 FLUID POWER  
 FLUID SWITCHING ELEMENTS  
 GATES (OPENINGS)

HYDRAULIC CONTROL  
 HYDRAULIC FLUIDS  
 HYDRAULICS  
**#**MOTORS  
 NETWORK ANALYSIS  
 NETWORK SYNTHESIS  
 NETWORKS  
**#**PUMPS  
 RELIEF VALVES  
 SERVOCONTROL  
 SERVOMECHANISMS  
 SHOCK ABSORBERS  
 SYSTEMS  
 TURBINE WHEELS  
**#**VALVES  
 WATER HAMMER  
 WHEEL BRAKES  
**HYDRAULIC FLUIDS**  
 0303 1202  
**NT** SKYDROL (TRADEMARK)  
**BT** #LIQUIDS  
**RT** FLUID TRANSMISSION LINES  
 FLUIDS  
**#**HIGH TEMPERATURE FLUIDS  
 HYDRAULIC EQUIPMENT  
 HYDRAULICS  
 OILS  
 PATCH TESTS  
 TRANSMISSION FLUIDS  
**HYDRAULIC HEATING SOURCES**  
 USE HEAT SOURCES  
 HYDRAULIC EQUIPMENT  
**HYDRAULIC JETS**  
 1202  
**UF** WATER JETS  
**BT** FLUID JETS  
**RT** JET FLOW  
**HYDRAULIC PUMPS**  
 USE HYDRAULIC EQUIPMENT  
**#**PUMPS  
**HYDRAULIC SHOCK**  
 0303 1504  
**BT** MECHANICAL SHOCK  
**HYDRAULIC SYSTEMS**  
 USE HYDRAULIC EQUIPMENT  
**HYDRAULIC TEST TUNNELS**  
 1202 1204  
**UF** WATER TUNNELS  
**RT** TUNNELS  
**HYDRAULIC VALVES**  
 USE HYDRAULIC EQUIPMENT  
**#**VALVES  
**HYDRAULICS**  
 0303 1202 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
**RT** FLUID DYNAMICS  
**#**FLUID FLOW  
**#**FLUID MECHANICS  
 FLUID POWER  
 HYDRAULIC CONTROL  
 HYDRAULIC EQUIPMENT  
 HYDRAULIC FLUIDS  
 HYDRODYNAMICS  
 HYDROLOGY  
 HYDROMECHANICS  
 HYDROSTATICS  
**#**IMPEDANCE  
 INFLUENCE COEFFICIENT  
 PIPES (TUBES)  
 PNEUMATICS  
 PRESSURE HEADS  
 WATER  
 WATER FLOW  
 WATER PRESSURE  
**HYDRAZIDES**  
 1808  
**BT** #ALIPHATIC COMPOUNDS  
**RT** HYDRAZINES  
**HYDRAZINE BORANE**  
 0603 2702  
**BT** #ALIPHATIC COMPOUNDS  
 BORANES  
**#**BORON COMPOUNDS  
 BORON HYDRIDES  
 HYDRAZINES  
 HYDRIDES  
**#**HYDROGEN COMPOUNDS  
**HYDRAZINE ENGINES**  
 2702 2804 2808  
**UF** NIMPEE (ENGINE)

# HYDROACOUSTICS

**BT** #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES  
**RT** TURBOROCKET ENGINES  
**HYDRAZINE NITRATE**  
 1808 2702  
**BT** INORGANIC NITRATES  
 NITRATES  
**#**NITROGEN COMPOUNDS  
**RT** HYDRAZINE NITROFORM  
**HYDRAZINE NITROFORM**  
 0603 2702  
**BT** #ALIPHATIC COMPOUNDS  
**#**ESTERS  
 EXPLOSIVES  
 NITRATES  
 NITROFORMS  
**#**NITROGEN COMPOUNDS  
 ORGANIC NITRATES  
**#**PROPELLANTS  
**#**ESTERS  
 HYDRAZINE NITRATE  
**HYDRAZINE PERCHLORATES**  
 0603 2702  
**BT** #ALIPHATIC COMPOUNDS  
 CHLORINE COMPOUNDS  
**#**HALOGEN COMPOUNDS  
 HYDRAZINES  
 PERCHLORATES  
**HYDRAZINES**  
 0603 1808  
**NT** CHLOROPROMAZINE  
 DIHYDRAZINE  
 DIMETHYLHYDRAZINES  
 ETHYLENE DIHYDRAZINE  
 HYDRAZINE BORANE  
 HYDRAZINE PERCHLORATES  
 METHYLHYDRAZINE  
 TETRAFLUOROHYDRAZINE  
**BT** #ALIPHATIC COMPOUNDS  
**RT** AEROZINE  
**#**AMINES  
 HYDRAZIDES  
 HYDRAZONES  
 LIQUID ROCKET PROPELLANTS  
 ROCKET PROPELLANTS  
**HYDRAZINIUM COMPOUNDS**  
 0603 1804  
**BT** #NITROGEN COMPOUNDS  
**HYDRAZOIC ACID**  
 0603 1808  
**BT** #ACIDS  
**#**NITROGEN COMPOUNDS  
**RT** NITROGEN HYDRIDES  
**HYDRAZONES**  
 0603 1804  
**BT** #NITROGEN COMPOUNDS  
**RT** HYDRAZINES  
**HYDRAZONIUM COMPOUNDS**  
 0603 1808  
**HYDRIDES**  
 0603 1804 1808  
**NT** ALUMINUM BOROHYDRIDES  
 ALUMINUM HYDRIDES  
 BERYLLIUM BOROHYDRIDES  
 BERYLLIUM HYDRIDES  
 BORANES  
 BOROHYDRIDES  
 BORON HYDRIDES  
 CARBORANE  
 CESIUM HYDRIDES  
 CHLOROSILANES  
 DIBORANE  
 DIHYDRIDES  
 HYDRAZINE BORANE  
 LITHIUM ALUMINUM HYDRIDES  
 LITHIUM HYDRIDES  
 METAL HYDRIDES  
 METHYL CHLOROSILANES  
 METHYLSOCYANATOSILANE  
 NITROGEN HYDRIDES  
 PENTABORANES  
 PHOSPHINES  
 POTASSIUM HYDRIDES  
 SILANES  
 SODIUM HYDRIDES  
 ZIRCONIUM HYDRIDES  
**BT** #HYDROGEN COMPOUNDS  
**RT** DEUTERIDES  
**HYDROACOUSTICS**  
 USE UNDERWATER ACOUSTICS



# HYDROAEROMECHANICS

## HYDROAEROMECHANICS

### USE AERODYNAMICS

#### HYDROBALLISTICS

1204 1904 2308 3201

#### BT BALLISTICS

#### RT BALLISTIC RANGES

##### HYDRODYNAMICS

##### TORPEDOES

##### UNDERWATER EXPLOSIONS

##### UNDERWATER TRAJECTORIES

#### HYDROBAROPHONES

#### USE HYDROPHONES

#### HYDROBORATION

0602

#### BT \*CHEMICAL REACTIONS

#### HYDROBROMIC ACID

0603 1808

#### BT \*ACIDS

##### BROMIDES

##### BROMINE COMPOUNDS

##### HALIDES

##### \*HALOGEN COMPOUNDS

#### HYDROBROMIDES

0603 1804

#### BT BROMIDES

##### BROMINE COMPOUNDS

##### HALIDES

##### \*HALOGEN COMPOUNDS

##### \*HYDROGEN COMPOUNDS

#### HYDROCARBON COMBUSTION

1808 3301

#### BT \*COMBUSTION

#### RT \*EXPLOSIONS

##### FUEL COMBUSTION

##### OXIDATION

##### PROPELLANT COMBUSTION

##### SMOG

#### HYDROCARBON FUELS

1808 2702 2804

#### NT GASOLINE

##### JET ENGINE FUELS

##### JP-4 JET FUEL

##### JP-5 JET FUEL

##### JP-6 JET FUEL

##### JP-8 JET FUEL

##### RP-1 ROCKET PROPELLANTS

#### BT CHEMICAL FUELS

##### \*FUELS

#### RT ACETYLENE

##### AIRCRAFT FUELS

##### ALKANES

##### \*AMINES

##### BUTADIENE

##### CRUDE OIL

##### ENDOTHERMIC FUELS

##### ETHANE

##### ETHYLENE

##### HEPTANES

##### HEXENES

##### HIGH ENERGY FUELS

##### HYDROGEN FUELS

##### HYPERGOLIC ROCKET PROPELLANTS

##### KEROSENE

##### METHANE

##### PARAFFINS

##### PROPANE

##### ROCKET PROPELLANTS

##### STORABLE PROPELLANTS

#### HYDROCARBON POISONING

0403 0412

#### RT BENZENE POISONING

##### INDUSTRIAL SAFETY

##### KEROSENE POISONING

##### POISONING

##### SMOG

##### TOXICITY AND SAFETY HAZARD

##### TOXICOLOGY

#### \*HYDROCARBONS

1808

#### NT ACETYLENE

##### ALKANES

##### ALKENES

##### ALKYNES

##### ANTHRACENE

##### BENZENE

##### BUTADIENE

##### BUTANES

##### BUTENES

##### CAROTENE

##### CERESIN

##### CETANE

##### CHLOROBENZENES

## COLCHICINE

## CUBANE

## CYCLIC HYDROCARBONS

## CYCLOBUTANE

## CYCLOPROPANE

## DIENES

## DIPHENYL COMPOUNDS

## DIPHENYL HYDANTOIN

## DURENE

## ETHANE

## ETHYLENE

## HEPTADIENE

## HEPTANES

## HEXADIENE

## HEXENES

## INDENE

## MENTHOL

## MESITYLENE

## METHANE

## METHYLENE

## NAPHTHALENE

## NAPHTHENES

## NEOPENTANE

## NITROPROPANE

## NONANES

## OCTANES

## OXYACETYLENE

## PARAFFINS

## PENTANES

## PROPANE

## PROPYLENE

## PYRENES

## TOLUENE

## TRIENES

## TRIPHENYLS

## VINYLDIENE

## XYLENE

#### RT \*ALIPHATIC COMPOUNDS

#### AROMATIC COMPOUNDS

#### \*CARBON COMPOUNDS

#### HYDROCHLORIC ACID

0603 1808

#### UP HYDROGEN CHLORIDE

#### BT \*ACIDS

##### CHLORIDES

##### CHLORINE COMPOUNDS

##### HALIDES

##### \*HALOGEN COMPOUNDS

#### HYDROCHLORIDES

0603 1808

#### BT CHLORIDES

##### CHLORINE COMPOUNDS

##### HALIDES

##### \*HALOGEN COMPOUNDS

#### HYDROCYANIC ACID

#### USE HYDROGEN CYANIDES

#### HYDRODYNAMIC EQUATIONS

1204 2311

#### NT HELMHOLTZ VORTICITY EQUATION

#### BT \*EQUATIONS OF MOTION

##### KINETIC EQUATIONS

#### RT BOLTZMANN TRANSPORT EQUATION

##### EQUATIONS

##### FLOW STABILITY

##### FLOW THEORY

##### \*FLUID MECHANICS

##### GAS DYNAMICS

##### HYDRODYNAMICS

##### \*METEOROLOGY

##### PLASMA DYNAMICS

#### HYDRODYNAMIC STABILITY

#### USE FLOW STABILITY

#### HYDRODYNAMIC TUNNELS

#### USE PLASMA JET WIND TUNNELS

#### HYDRODYNAMICS

1203 1204

#### NT ELASTOHYDRODYNAMICS

##### ELECTROHYDRODYNAMICS

##### MAGNETOHYDRODYNAMICS

#### BT FLUID DYNAMICS

##### \*FLUID MECHANICS

##### HYDROMECHANICS

#### RT BALLAST (MASS)

##### DYNAMICS

##### EULER EQUATIONS OF MOTION

##### FLOW THEORY

##### \*FLUID FLOW

##### FLUID POWER

##### GAS DYNAMICS

##### HYDRAULICS

##### HYDROBALLISTICS

##### HYDRODYNAMIC EQUATIONS

# NASA THESAURUS (ALPHABETICAL LISTING)

## HYDROSTATICS

## KROOK EQUATION

## LAGRANGE COORDINATES

## MECHANICS (PHYSICS)

## PRESSURE GRADIENTS

## PRESSURE HEADS

## SEEPAGE

## SHIP HULLS

## WATER

## WATER FLOW

## WATER HAMMER

## WATER PRESSURE

#### HYDROELASTICITY

0603 1204 3408

#### BT ELASTIC PROPERTIES

#### \*MECHANICAL PROPERTIES

#### RT COMPRESSIBILITY

##### COMPRESSIBLE FLUIDS

##### MODULUS OF ELASTICITY

##### THERMOELASTICITY

##### VISCOELASTICITY

#### HYDROFLUORIC ACID

0603 1808

#### UP HYDROGEN FLUORIDES

#### BT \*ACIDS

##### FLUORIDES

##### \*FLUORINE COMPOUNDS

##### HALIDES

##### \*HALOGEN COMPOUNDS

#### HYDROFOIL BOATS

#### USE BOATS

#### HYDROFOIL CRAFT

#### HYDROFOIL CRAFT

1204

#### UP HYDROFOIL BOATS

#### RT CAPTURED AIR BUBBLE VEHICLES

##### HYDROFOILS

##### HYDROPLANES (VEHICLES)

##### SHIPS

#### HYDROFOIL OSCILLATIONS

1204

#### BT \*OSCILLATIONS

#### RT FLOW STABILITY

##### FLUTTER

##### HYDROFOILS

##### SUPERCAVITATING FLOW

#### HYDROFOILS

1204

#### NT KEELS

#### RT \*AIRFOILS

##### BLADES

##### ELEVATORS (CONTROL SURFACES)

##### FINS

##### FOILS

##### FOILS (MATERIALS)

##### GUIDE VANES

##### HULLS (STRUCTURES)

##### HYDROFOIL CRAFT

##### HYDROFOIL OSCILLATIONS

##### HYDROPLANES (SURFACES)

##### HYDROPLANING

##### LANDING GEAR

##### MARINE RUDDERS

##### SHIPS

##### SKIS

##### STREAMLINING

##### TAIL ASSEMBLIES

#### HYDROFORMING

1502 1504 1704 1806

#### BT \*METAL WORKING

#### RT DEHYDROGENATION

#### HYDROGEN

0603 1807

#### NT DEUTERIUM

##### DEUTERIUM PLASMA

##### HYDROGEN ATOMS

##### HYDROGEN IONS

##### HYDROGEN ISOTOPES

##### HYDROGEN PLASMA

##### LIQUID HYDROGEN

##### ORTHO HYDROGEN

##### PARA HYDROGEN

# NASA THESAURUS (ALPHABETICAL LISTING)

PASCHEN SERIES  
 RYDBERG SERIES  
 HYDROGEN ATOMS  
 0603 1807 2401  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN  
 HYDROGEN AZIDES  
 1804  
 BT AZIDES (INORGANIC)  
 EXPLOSIVES  
 #NITROGEN COMPOUNDS  
 #PROPELLANTS  
 HYDROGEN BOMBS  
 USE FUSION WEAPONS  
 HYDROGEN BONDS  
 0603 1807  
 BT CHEMICAL BONDS  
 RT HYDROGEN  
 #HYDROGEN COMPOUNDS  
 HYDROGEN CHLORIDE  
 USE HYDROCHLORIC ACID  
 HYDROGEN CLOUDS  
 1301 1308 2003  
 BT #CLOUDS  
 RT CLOUDS (METEOROLOGY)  
 DROP SIZE  
 #GASES  
 PLASMA CLOUDS  
 VAPOR PHASES  
 #VAPORS  
 #HYDROGEN COMPOUNDS  
 0603 1804 1808  
 NT ALUMINUM BOROHYDRIDES  
 ALUMINUM HYDRIDES  
 BERYLLIUM BOROHYDRIDES  
 BERYLLIUM HYDRIDES  
 BORANES  
 BOROHYDRIDES  
 BORON HYDRIDES  
 CARBORANE  
 CESIUM HYDRIDES  
 CHLOROSILANES  
 DEUTERIDES  
 DEUTERIUM COMPOUNDS  
 DIBORANE  
 DIHYDRIDES  
 HEAVY WATER  
 HYDRAZINE BORANE  
 HYDRIDES  
 HYDROBROMIDES  
 HYDROGEN CYANIDES  
 HYDROGEN PEROXIDE  
 HYDROGEN SULFIDE  
 HYDROSULFITES  
 LITHIUM ALUMINUM HYDRIDES  
 LITHIUM HYDRIDES  
 METAL HYDRIDES  
 METHYL CHLOROSILANES  
 METHYLISOCYANATOSILANE  
 NITROGEN HYDRIDES  
 PENTABORANES  
 PHOSPHINES  
 POTASSIUM HYDRIDES  
 SILANES  
 SODIUM HYDRIDES  
 ZIRCONIUM HYDRIDES  
 RT #ACIDS  
 HYDROGEN BONDS  
 HYDROGEN IONS  
 WATER  
 HYDROGEN CYANIDES  
 0603 1804  
 UP HYDROCYANIC ACID  
 BT CYANIDES  
 #HYDROGEN COMPOUNDS  
 #NITROGEN COMPOUNDS  
 HYDROGEN DEUTERIUM OXIDE  
 USE HEAVY WATER  
 HYDROGEN FLUORIDES  
 USE HYDROFLUORIC ACID  
 HYDROGEN FUELS  
 0603 1808 2701 2702  
 BT CHEMICAL FUELS  
 #FUELS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 DEUTERIUM  
 FUEL CELLS  
 GASEOUS ROCKET PROPELLANTS  
 GELLED PROPELLANTS  
 HYDROCARBON FUELS  
 LIQUID HYDROGEN

LIQUID ROCKET PROPELLANTS  
 RAMJET ENGINES  
 HYDROGEN IONS  
 0603 1804  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN  
 #IONS  
 RT ACIDITY  
 #HYDROGEN COMPOUNDS  
 HYDROGEN PLASMA  
 HYDROGEN RECOMBINATIONS  
 HYDRONIUM IONS  
 PH  
 PH FACTOR  
 PROTONS  
 HYDROGEN ISOTOPES  
 2406  
 NT DEUTERIUM  
 HYDROGEN 4  
 TRITIUM  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN  
 ISOTOPES  
 NUCLIDES  
 RT HYDROGEN PLASMA  
 HYDROGEN RECOMBINATIONS  
 HYDROGEN OXYGEN ENGINES  
 3110  
 UP HYDROX ENGINES  
 LOX-HYDROGEN ENGINES  
 NT J-2 ENGINE  
 M-1 ENGINE  
 BT #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES  
 RT AUXILIARY PROPULSION  
 LIQUID AIR CYCLE ENGINES  
 TURBOROCKET ENGINES  
 HYDROGEN OXYGEN FUEL CELLS  
 0302 0505 0603  
 BT DIRECT POWER GENERATORS  
 #ELECTRIC GENERATORS  
 #ELECTROCHEMICAL CELLS  
 FUEL CELLS  
 HYDROGEN PERCHLORATE  
 0603 1804  
 BT CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 PERCHLORATES  
 HYDROGEN PEROXIDE  
 0603 1804 2702  
 BT #CHALCOGENIDES  
 DIOXIDES  
 #HYDROGEN COMPOUNDS  
 INORGANIC PEROXIDES  
 OXIDES  
 PEROXIDES  
 RT ROCKET OXIDIZERS  
 HYDROGEN PLASMA  
 0603 2502  
 NT DEUTERIUM PLASMA  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN  
 #PLASMAS (PHYSICS)  
 RT ARGON PLASMA  
 DEUTERIUM  
 HELIUM PLASMA  
 HYDROGEN IONS  
 HYDROGEN ISOTOPES  
 #PARTICLES  
 SOLAR WIND  
 STARK EFFECT  
 HYDROGEN RECOMBINATIONS  
 0602 0603  
 BT #RECOMBINATION REACTIONS  
 RT HYDROGEN  
 HYDROGEN IONS  
 HYDROGEN ISOTOPES  
 HYDROGEN SULFIDE  
 0603 1804 2701  
 BT #CHALCOGENIDES  
 #HYDROGEN COMPOUNDS  
 INORGANIC SULFIDES  
 SULFIDES  
 #SULFUR COMPOUNDS  
 HYDROGEN 2  
 USE DEUTERIUM  
 HYDROGEN 3  
 USE TRITIUM

## HYDROMECHANICS

HYDROGEN 4  
 1807 2406  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 HYDROGEN ISOTOPES  
 ISOTOPES  
 NUCLIDES  
 HYDROGENATION  
 0602 3407  
 BT #CHEMICAL REACTIONS  
 REDUCTION (CHEMISTRY)  
 RT DEHYDROGENATION  
 HYDROGEN  
 REFINING  
 HYDROGENOLYSIS  
 0602  
 BT #CHEMICAL REACTIONS  
 DECOMPOSITION  
 RT DEHYDROGENATION  
 HYDROGEN  
 REDUCTION  
 HYDROGENOMONAS  
 0404 0407 0409  
 BT AUTOTROPHS  
 BACTERIA  
 #MICROORGANISMS  
 #PLANTS (BOTANY)  
 HYDROGEOLOGY  
 1204 1306 1310  
 BT #GEOLOGY  
 HYDROLOGY  
 RT CORE SAMPLING  
 EROSION  
 FLOOD PREDICTIONS  
 GEYSERS  
 GLACIOLOGY  
 HYDROSTATICS  
 STRATIGRAPHY  
 HYDROGRAPHY  
 1303 1304 1310 2003  
 RT GEOPHYSICS  
 HYDROLOGY  
 HYDROMETEOROLOGY  
 ICE MAPPING  
 #METEOROLOGY  
 OCEAN CURRENTS  
 OCEAN SURFACE  
 OCEANOGRAPHY  
 HYDROKINETICS  
 USE HYDROMECHANICS  
 HYDROLOGY  
 1310 2003  
 NT HYDROGEOLOGY  
 RT CLIMATOLOGY  
 DRAINAGE  
 EARTH HYDROSPHERE  
 EARTH PLANETARY STRUCTURE  
 FLOOD PREDICTIONS  
 FLOODS  
 GEOCHEMISTRY  
 GEOPHYSICS  
 HYDRAULICS  
 HYDROGRAPHY  
 HYDROMETEOROLOGY  
 ICE MAPPING  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 OCEANOGRAPHY  
 POLAR METEOROLOGY  
 PRECIPITATION (METEOROLOGY)  
 RAIN  
 STREAMS  
 WATER  
 WATER MANAGEMENT  
 HYDROLYSIS  
 0602 1702  
 BT #CHEMICAL REACTIONS  
 RT AMMONOLYSIS  
 EXTRACTION  
 HYDRATION  
 HYDROMAGNETIC FLOW  
 USE MAGNETOHYDRODYNAMIC FLOW  
 HYDROMAGNETIC STABILITY  
 USE MAGNETOHYDRODYNAMIC STABILITY  
 HYDROMAGNETIC WAVES  
 USE MAGNETOHYDRODYNAMIC WAVES  
 HYDROMAGNETICS  
 USE MAGNETOHYDRODYNAMICS  
 HYDROMAGNETISM  
 USE MAGNETOHYDRODYNAMICS  
 HYDROMECHANICS  
 1202 1204

## HYDROMETALLURGY

UP HYDROKINETICS  
 NT ELASTOHYDRODYNAMICS  
 ELECTROHYDRODYNAMICS  
 HYDRODYNAMICS  
 HYDROSTATICS  
 MAGNETOHYDRODYNAMICS  
 MAGNETOHYDROSTATICS  
 BT #FLUID MECHANICS  
 RT FLUID DYNAMICS  
 #FLUID FLOW  
 HYDRAULICS  
 KINETICS  
 WATER

HYDROMETALLURGY  
 1704  
 RT CHLORINATION  
 ELECTRODIALYSIS  
 FILTRATION  
 ION EXCHANGING  
 LEACHING  
 METALLURGY  
 PRECIPITATION  
 PRECIPITATION (CHEMISTRY)  
 REFINING  
 SULFATION

HYDROMETEOROLOGY  
 1301 1302 2001 2003  
 BT #METEOROLOGY  
 RT HYDROGRAPHY  
 HYDROLOGY  
 PRECIPITATION (CHEMISTRY)  
 PRECIPITATION (METEOROLOGY)  
 WATER BALANCE

HYDROMETERS  
 0603 1406 2002 2003  
 BT #MEASURING INSTRUMENTS  
 RT CHEMICAL ANALYSIS  
 DENSITY (MASS/VOLUME)  
 DENSITY MEASUREMENT  
 WEIGHT MEASUREMENT

HYDRONIUM IONS  
 1804  
 BT #IONS  
 RT HYDROGEN  
 HYDROGEN IONS

HYDROPHONES  
 0701 0904 1413  
 UP HYDROBAROPHONES  
 BT ELECTROACOUSTIC TRANSDUCERS  
 SOUND TRANSDUCERS  
 #TRANSDUCERS  
 RT MICROPHONES  
 SONAR  
 SONOBUOYS

HYDROPLANES (SURFACES)  
 1204  
 UP HYDROSKIS  
 RT HYDROFOILS  
 HYDROPLANES (VEHICLES)  
 HYDROPLANING  
 SKIS

HYDROPLANES (VEHICLES)  
 1204  
 RT HYDROFOIL CRAFT  
 HYDROPLANES (SURFACES)  
 HYDROPLANING

HYDROPLANING  
 1204  
 RT HYDROFOILS  
 HYDROPLANES (SURFACES)  
 HYDROPLANES (VEHICLES)  
 SKID LANDINGS  
 SKIDDING  
 WATER LANDING

HYDROPONICS  
 0403 0409 0505  
 RT AGRICULTURE  
 #PLANTS (BOTANY)

HYDROSKIS  
 USE HYDROPLANES (SURFACES)

HYDROSPHERE (EARTH)  
 USE EARTH HYDROSPHERE

HYDROSPINNING  
 1202 1203 1204 1504  
 BT #FORMING TECHNIQUES  
 METAL SPINNING  
 #METAL WORKING  
 #SPIN

HYDROSTATIC PRESSURE  
 1408 2311  
 BT #PRESSURE  
 STATIC PRESSURE

RT CENTER OF PRESSURE  
 ELEVATION  
 HEAD (FLUID MECHANICS)  
 HYDROSTATICS  
 ISOSTATIC PRESSURE  
 PRESSURE HEADS  
 WATER PRESSURE

HYDROSTATICS  
 1408 2311  
 NT MAGNETOHYDROSTATICS  
 BT #FLUID MECHANICS  
 HYDROMECHANICS  
 #STATICS  
 RT ELEVATION  
 HEAD (FLUID MECHANICS)  
 HYDRAULICS  
 HYDRODYNAMICS  
 HYDROGEOLOGY  
 HYDROSTATIC PRESSURE  
 ISOSTASY  
 PRESSURE GRADIENTS  
 PRESSURE HEADS  
 WATER  
 WATER PRESSURE

HYDROSULFITES  
 0603 1804  
 BT #HYDROGEN COMPOUNDS  
 SULFITES  
 #SULFUR COMPOUNDS

HYDROTHERMAL CRYSTAL GROWTH  
 0602 2501  
 BT CRYSTAL GROWTH  
 #GROWTH

HYDROX ENGINES  
 USE HYDROGEN OXYGEN ENGINES

HYDROXIDES  
 0603 1804  
 NT LITHIUM HYDROXIDES  
 POTASSIUM HYDROXIDES  
 SODIUM HYDROXIDES  
 RT ALKALIES

HYDROXYCORTICOSTEROID  
 0405 0408  
 BT CORTICOSTEROIDS  
 RT ADRENAL METABOLISM

#HYDROXYL COMPOUNDS  
 1808  
 NT ALCOHOLS  
 BISPHENOLS  
 CRESOLS  
 CYANURIC ACID  
 ETHYL ALCOHOL  
 GLYCOLS  
 ISOPROPYL ALCOHOL  
 METHYL ALCOHOLS  
 PHENOLS  
 PHENOLGLUCINOL  
 POLYVINYL ALCOHOL  
 THYMOL  
 TRIOLS  
 RT #ALIPHATIC COMPOUNDS

HYDROXYL EMISSION  
 0705 2402  
 BT EMISSION  
 RT EMISSION SPECTRA  
 RADIO SOURCES (ASTRONOMY)

HYDROXYLAMINE SULFATE  
 1808  
 BT #AMINES  
 SULFATES  
 #SULFUR COMPOUNDS

HYDROXYLAMMONIUM PERCHLORATES  
 0603 1804  
 BT AMMONIUM COMPOUNDS  
 CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 PERCHLORATES

HYGIENE  
 0405 0408 0411 0504 0507  
 RT BATHING  
 CLEANLINESS  
 HEALTH  
 SANITATION

HYGROMETERS  
 1406 2001 2002 2003  
 NT PSYCHROMETERS  
 BT #MEASURING INSTRUMENTS  
 MOISTURE METERS  
 RT CHEMICAL ANALYSIS  
 HUMIDITY  
 HUMIDITY MEASUREMENT  
 METEOROLOGICAL INSTRUMENTS

## NASA THESAURUS (ALPHABETICAL LISTING)

HYGROSCOPICITY  
 0603 2003 3408  
 RT #CHEMICAL PROPERTIES  
 MATERIAL ABSORPTION  
 MOISTURE CONTENT  
 PHYSICAL PROPERTIES  
 SOLUBILITY  
 WETTABILITY

HYLA-STAR ROCKET VEHICLE  
 3103 3106  
 BT #LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 SINGLE STAGE ROCKET VEHICLES

RT LIQUID PROPELLANT ROCKET ENGINES  
 TITAN 2 ICBM

HYLLERAAS COORDINATES  
 1902 2304  
 BT #COORDINATES  
 RT QUANTUM MECHANICS  
 TWO BODY PROBLEM

HYOSCINE  
 0603 1808  
 UP SCOPOLAMINE  
 BT ALKALOIDS  
 #AMINES  
 EPOXY COMPOUNDS  
 #HETEROCYCLIC COMPOUNDS  
 #NITROGEN COMPOUNDS

HYPERBARIC CHAMBERS  
 0303 0408 0504  
 BT PRESSURE CHAMBERS  
 TEST CHAMBERS  
 RT CHAMBERS  
 HIGH PRESSURE  
 VACUUM CHAMBERS

HYPERBOLAS  
 1902  
 BT ANALYTIC GEOMETRY  
 CONICS  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT HYPERBOLIC TRAJECTORIES

HYPERBOLIC COORDINATES  
 1902 1905  
 UP HYPERBOLIC SPACE  
 BT #COORDINATES  
 RT HYPERBOLIC FUNCTIONS  
 HYPERBOLIC NAVIGATION  
 HYPERBOLIC SYSTEMS

HYPERBOLIC FUNCTIONS  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
 REAL VARIABLES  
 RT EXPONENTIAL FUNCTIONS  
 HYPERBOLIC COORDINATES  
 HYPERBOLIC SYSTEMS  
 METHOD OF CHARACTERISTICS  
 ORTHOGONAL FUNCTIONS  
 RIEMANN WAVES  
 RIESZ THEOREM

HYPERBOLIC NAVIGATION  
 0709 1902 2103  
 RT DECCA NAVIGATION  
 LORAC NAVIGATION SYSTEM  
 LORAN  
 LORAN C  
 LORAN D  
 SHORAN  
 BT #NAVIGATION  
 RADIO NAVIGATION  
 RT AIR NAVIGATION  
 HYPERBOLIC COORDINATES  
 HYPERBOLIC SYSTEMS  
 INERTIAL NAVIGATION  
 SURFACE NAVIGATION

HYPERBOLIC REENTRY  
 1902 3006 3105  
 BT #ATMOSPHERIC ENTRY  
 REENTRY  
 #SPACE FLIGHT  
 RT REENTRY TRAJECTORIES

HYPERBOLIC SPACE  
 USE HYPERBOLIC COORDINATES

HYPERBOLIC SYSTEMS  
 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT HYPERBOLIC COORDINATES  
 HYPERBOLIC FUNCTIONS

# NASA THESAURUS (ALPHABETICAL LISTING)

## #HYPERSONIC VEHICLES

HYPERBOLIC NAVIGATION  
 HYPERBOLIC TRAJECTORIES  
 1902 3001 3006  
 BT #TRAJECTORIES  
 RT CELESTIAL MECHANICS  
 ESCAPE VELOCITY  
 HYPERBOLAS  
 SPACECRAFT TRAJECTORIES  
 HYPERCAPNIA  
 0401 0405 0408  
 BT CARBON DIOXIDE TENSION  
 HYPERFINE STRUCTURE  
 0603 1411 2401  
 RT ATOMIC STRUCTURE  
 FINE STRUCTURE  
 LINE SPECTRA  
 SPECTRUM ANALYSIS  
 STRUCTURES  
 HYPERGEOMETRIC FUNCTIONS  
 1902  
 UP JACOBI POLYNOMIALS  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
 RT BESSEL FUNCTIONS  
 #GEOMETRY  
 HYPERSPACES  
 HYPERGEOMETRY  
 USE HYPERSPACES  
 HYPERGLYCEMIA  
 0404 0405 0408  
 BT CARBOHYDRATE METABOLISM  
 #METABOLISM  
 HYPERGOLIC ROCKET PROPELLANTS  
 0603 2702 3301  
 BT #FUELS  
 LIQUID ROCKET PROPELLANTS  
 #LIQUIDS  
 #PROPELLANTS  
 ROCKET PROPELLANTS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 HYBRID PROPELLANTS  
 HYDROCARBON FUELS  
 PYROPHORIC MATERIALS  
 SOLID PROPELLANT IGNITION  
 SPONTANEOUS COMBUSTION  
 STORABLE PROPELLANTS  
 HYPERHEA  
 0404 0405  
 RT MENTAL PERFORMANCE  
 HYPERNUCLEI  
 2401 2403  
 BT NUCLEI (NUCLEAR PHYSICS)  
 RT ELEMENTARY PARTICLES  
 RADIOACTIVE DECAY  
 HYPERONS  
 2403 2405  
 BT ELEMENTARY PARTICLES  
 FERMIONS  
 NUCLEAR PARTICLES  
 #PARTICLES  
 RT ANTIPARTICLES  
 BARYON RESONANCES  
 CHARGED PARTICLES  
 MESON RESONANCES  
 MESONS  
 NUCLEONS  
 STRANGENESS  
 HYPEROPIA  
 0405 0408 2310  
 BT #ACUITY  
 EYE DISEASES  
 VISUAL ACUITY  
 RT VISION  
 HYPEROXIA  
 0401 0402 0405 0408 0506 0507  
 UP OXYGEN TOXICITY  
 RT HYPERVENTILATION  
 OXIMETRY  
 OXYGEN CONSUMPTION  
 TOXIC DISEASES  
 TOXICITY  
 HYPERPLANES  
 1902 2311  
 BT #ANALYSIS (MATHEMATICS)  
 REAL VARIABLES  
 RT HYPERSPACES  
 POLYTOPES  
 SET THEORY  
 HYPERPNEA  
 0404 0405  
 RT RESPIRATORY RATE  
 HYPERSONNIA  
 0405 0408  
 BT SLEEP  
 HYPERSONIC AIRCRAFT  
 0101 0201 0203 0205 0207  
 (AIRCRAFT DESIGNED TO FLY AT SPEEDS OF  
 MACH 5 OR GREATER)  
 RT HYPERSONIC GLIDERS  
 X-20 AIRCRAFT  
 BT #HYPERSONIC VEHICLES  
 RT AEROSPACEPLANES  
 AIRCRAFT  
 ASTROPLANE  
 BOOSTGLIDE VEHICLES  
 HYPERSONIC FLIGHT  
 HYPERSONICS  
 #JET AIRCRAFT  
 LOW WING AIRCRAFT  
 RESEARCH AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 SWEEPBACK TAIL SURFACES  
 SWEEPBACK WINGS  
 TRAPEZOIDAL TAIL SURFACES  
 HYPERSONIC BOUNDARY LAYER  
 0101 0201 1203  
 BT BOUNDARY LAYERS  
 RT HYPERSONIC FLOW  
 LAMINAR BOUNDARY LAYER  
 THERMAL BOUNDARY LAYER  
 TURBULENT BOUNDARY LAYER  
 HYPERSONIC COMBUSTION  
 0101 0201 3301  
 BT #COMBUSTION  
 RT FUEL COMBUSTION  
 HYPERSONIC FLOW  
 HYPERSONIC FLIGHT  
 0101 0201 0205  
 RT AERODYNAMICS  
 FLIGHT  
 HYPERSONIC AIRCRAFT  
 HYPERSONIC FLOW  
 HYPERSONIC REENTRY  
 HYPERSONIC SHOCK  
 #HYPERSONIC VEHICLES  
 HYPERSONICS  
 #MISSILES  
 ROCKET FLIGHT  
 SUPERSONIC FLIGHT  
 HYPERSONIC FLOW  
 0101 1202  
 RT AERODYNAMICS  
 CASCADE WIND TUNNELS  
 COMPRESSIBLE FLOW  
 FLOW VELOCITY  
 GAS FLOW  
 HYPERSONIC BOUNDARY LAYER  
 HYPERSONIC COMBUSTION  
 HYPERSONIC FLIGHT  
 HYPERSONIC FORCES  
 HYPERSONIC HEAT TRANSFER  
 HYPERSONIC NOZZLES  
 HYPERSONIC REENTRY  
 HYPERSONIC SHOCK  
 HYPERSONIC TEST APPARATUS  
 HYPERSONIC WAKES  
 HYPERSONICS  
 HYPERVELOCITY WIND TUNNELS  
 LIGHTRAIL GAS MODEL  
 SHOCK TUBES  
 SHOCK TUNNELS  
 SHOCK WAVES  
 SUPERSONIC FLOW  
 WIND TUNNELS  
 HYPERSONIC FORCES  
 0101 0205 1203  
 BT #AERODYNAMIC FORCES  
 RT AERODYNAMIC DRAG  
 HYPERSONIC FLOW  
 HYPERSONIC SHOCK  
 HYPERSONICS  
 LIFT  
 HYPERSONIC GLIDERS  
 0101 0201 0205 3105  
 BT X-20 AIRCRAFT  
 BT #GLIDERS  
 HYPERSONIC AIRCRAFT  
 #HYPERSONIC VEHICLES  
 RT AEROSPACEPLANES  
 ASSET GLIDERS  
 ASTROPLANE  
 BOOSTGLIDE VEHICLES  
 HL-10 REENTRY VEHICLE  
 HLD-35 REENTRY VEHICLE  
 HYPERSONIC REENTRY  
 INFLATABLE HYPERSONIC VEHICLES  
 LIFTING REENTRY VEHICLES  
 PARAGLIDERS  
 HYPERSONIC HEAT TRANSFER  
 0201 0205 3303 3304  
 BT AERODYNAMIC HEAT TRANSFER  
 HEAT TRANSFER  
 HEAT TRANSMISSION  
 #TRANSMISSION  
 RT AEROTHERMODYNAMICS  
 HYPERSONIC FLOW  
 HYPERSONICS  
 SUPERSONIC HEAT TRANSFER  
 HYPERSONIC INLETS  
 0201 0202 0205  
 BT AIR INTAKES  
 #INTAKE SYSTEMS  
 RT DIFFUSERS  
 NOSE INLETS  
 SIDE INLETS  
 SUPERSONIC INLETS  
 HYPERSONIC NOZZLES  
 0205 1203 2806 2808  
 RT CONICAL NOZZLES  
 HYPERSONIC FLOW  
 NOZZLES  
 ROCKET NOZZLES  
 SUPERSONIC NOZZLES  
 TRANSONIC NOZZLES  
 WIND TUNNEL NOZZLES  
 HYPERSONIC REENTRY  
 0205 3009 3105  
 BT #ATMOSPHERIC ENTRY  
 REENTRY  
 #SPACE FLIGHT  
 AERODYNAMIC HEATING  
 AEROTHERMODYNAMICS  
 BERENICE ROCKET VEHICLE  
 HYPERSONIC FLIGHT  
 HYPERSONIC FLOW  
 HYPERSONIC GLIDERS  
 #HYPERSONIC VEHICLES  
 REENTRY EFFECTS  
 REENTRY PHYSICS  
 SPACECRAFT REENTRY  
 HYPERSONIC SHOCK  
 0201 0205 1203 2311  
 RT HYPERSONIC FLIGHT  
 HYPERSONIC FLOW  
 HYPERSONIC FORCES  
 HYPERSONIC TEST APPARATUS  
 HYPERSONICS  
 MACH CONES  
 NOISE (SOUND)  
 SHOCK WAVES  
 HYPERSONIC SPEED  
 0201 0205 3009  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT HIGH SPEED  
 HYPERSONICS  
 HYPERVELOCITY  
 SUPERSONIC SPEEDS  
 HYPERSONIC TEST APPARATUS  
 1106 1108 1110  
 RT HYPERSONIC FLOW  
 HYPERSONIC SHOCK  
 HYPERSONICS  
 HYPERVELOCITY WIND TUNNELS  
 MISSILE BANGES  
 SUPERSONIC TEST APPARATUS  
 TEST EQUIPMENT  
 #HYPERSONIC VEHICLES  
 0201 0205  
 BT HLD-35 REENTRY VEHICLE  
 HYPERSONIC AIRCRAFT  
 HYPERSONIC GLIDERS  
 INFLATABLE HYPERSONIC VEHICLES  
 X-20 AIRCRAFT  
 RT FLIGHT VEHICLES  
 HYPERSONIC FLIGHT  
 HYPERSONIC REENTRY  
 HYPERSONICS  
 INSULATED STRUCTURES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 SPACECRAFT  
 TEST VEHICLES  
 VEHICLES

# HYPERSONIC WAKES

WINGED VEHICLES  
 HYPERSONIC WAKES  
 0201 0205 1203  
 BT #WAKES  
 RT AIRCRAFT WAKES  
 BOW WAVES  
 HYPERSONIC FLOW  
 HYPERSONICS  
 SHOCK WAVES  
 SUPERSONIC WAKES  
 HYPERSONIC WIND TUNNELS  
 USE HYPERVELOCITY WIND TUNNELS  
 HYPERSONICS  
 0101 1202 2301 2312  
 BT AERODYNAMICS  
 FLUID DYNAMICS  
 #FLUID MECHANICS  
 GAS DYNAMICS  
 RT AEROTHERMODYNAMICS  
 GAS DYNAMICS  
 HYPERSONIC AIRCRAFT  
 HYPERSONIC FLIGHT  
 HYPERSONIC FLOW  
 HYPERSONIC FORCES  
 HYPERSONIC HEAT TRANSFER  
 HYPERSONIC SHOCK  
 HYPERSONIC SPEED  
 HYPERSONIC TEST APPARATUS  
 #HYPERSONIC VEHICLES  
 HYPERSONIC WAKES  
 SUPERSONIC SPEEDS  
 SUPERSONICS  
 HYPERSPACES  
 1902  
 UP HYPERGEOMETRY  
 RT HYPERGEOMETRIC FUNCTIONS  
 HYPERPLANES  
 HYPERSPHERES  
 PHASE-SPACE INTEGRAL  
 SPACE  
 HYPERSPHERES  
 1902 2311  
 RT #GEOMETRY  
 HYPERSPACES  
 REAL VARIABLES  
 HYPERTENSIN  
 0403 1808  
 BT #ACIDS  
 AMINO ACIDS  
 #DRUGS  
 #ORGANIC COMPOUNDS  
 PEPTIDES  
 #PROTEINS  
 VASOCONSTRICTOR DRUGS  
 HYPERTENSION  
 0405 0408  
 BT BLOOD PRESSURE  
 #PRESSURE  
 HYPERTHERMIA  
 0405 0408 3105  
 RT BODY TEMPERATURE  
 FEVER  
 SKIN TEMPERATURE (BIOLOGY)  
 THERMOREGULATION  
 HYPERTONIA  
 USE OSMOSIS  
 HYPERTROPHY  
 USE #GROWTH  
 HYPERVELOCITY  
 2301 2312 3201  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ESCAPE VELOCITY  
 HYPERSONIC SPEED  
 ORBITAL VELOCITY  
 RELATIVISTIC VELOCITY  
 HYPERVELOCITY ACCELERATORS  
 USE HYPERVELOCITY GUNS  
 HYPERVELOCITY CRATERING  
 USE HYPERVELOCITY PROJECTILES  
 PROJECTILE CRATERING  
 HYPERVELOCITY FLOW  
 0102 1110 1203 2405  
 BT #FLUID FLOW  
 RT FLOW VELOCITY  
 SUPERSONIC FLOW  
 HYPERVELOCITY GUNS  
 2308 3302 3401  
 UP HYPERVELOCITY ACCELERATORS  
 RT ACCELERATORS  
 BALLISTICS

GAS GUNS  
 GUNS  
 GUNS (ORDNANCE)  
 HYPERVELOCITY PROJECTILES  
 HYPERVELOCITY IMPACT  
 2308 3201  
 BT IMPACT  
 RT HYPERVELOCITY PROJECTILES  
 MECHANICAL SHOCK  
 METEORITE COLLISIONS  
 METEORITIC DAMAGE  
 POINT IMPACT  
 PROJECTILE CRATERING  
 HYPERVELOCITY LAUNCHERS  
 1104 2308 3103  
 BT #LAUNCHERS  
 RT GUN LAUNCHERS  
 HYPERVELOCITY PROJECTILES  
 HYPERVELOCITY PROJECTILES  
 3101 3110 3302 3401  
 UP HYPERVELOCITY CRATERING  
 BT PROJECTILES  
 RT BOMBARDMENT  
 HYPERVELOCITY GUNS  
 HYPERVELOCITY IMPACT  
 HYPERVELOCITY LAUNCHERS  
 LIGHT GAS GUNS  
 METEORIDS  
 PROJECTILE CRATERING  
 #SIMULATION  
 HYPERVELOCITY WIND TUNNELS  
 0201 1110 1203  
 (ABOVE MACH 5)  
 UP HYPERSONIC WIND TUNNELS  
 WAVE SUPERHEATERS  
 RT CASCADE WIND TUNNELS  
 HOTSHOT WIND TUNNELS  
 PLASMA JET WIND TUNNELS  
 SHOCK TUNNELS  
 BT #TEST FACILITIES  
 WIND TUNNELS  
 RT BLOWDOWN WIND TUNNELS  
 COMBUSTION WIND TUNNELS  
 HYPERSONIC FLOW  
 HYPERSONIC TEST APPARATUS  
 LOW DENSITY WIND TUNNELS  
 MAGNETIC PISTONS  
 SHOCK TUBES  
 SUPERSONIC WIND TUNNELS  
 HYPERVENTILATION  
 0405 0408 0506  
 RT ACIDOSIS  
 ALKALOSIS  
 HYPEROXIA  
 HYPERVOLEMIA  
 0405 0408  
 RT BLOOD CIRCULATION  
 HYPNOSIS  
 0405 0408  
 BT SLEEP  
 RT ANESTHESIA  
 HYPOBARIC ATMOSPHERES  
 0401 1302 1408  
 RT ALTITUDE SIMULATION  
 ATMOSPHERES  
 HIGH ALTITUDE BREATHING  
 HIGH ALTITUDE ENVIRONMENTS  
 HIGH ALTITUDE PRESSURE  
 HYPOBARIC CHAMBERS  
 LOW PRESSURE  
 HYPOCAPNIA  
 0405 0408  
 BT CARBON DIOXIDE TENSION  
 HYPODERMIS  
 0403 0404  
 RT TISSUES (BIOLOGY)  
 HYPODYNAMIA  
 0404 0408  
 RT MUSCLES  
 MUSCULAR FUNCTION  
 HYPOELASTICITY  
 3408  
 BT ELASTIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 HYPOGLYCEMIA  
 0405 0408  
 BT CARBOHYDRATE METABOLISM  
 #METABOLISM  
 HYPOKINESIA  
 0404 0408  
 RT MUSCULAR FUNCTION  
 MUSCULOSKELETAL SYSTEM

# NASA THESAURUS (ALPHABETICAL LISTING)

PHYSICAL EXERCISE  
 HYPOMETABOLISM  
 0405 0406 0408  
 BT #METABOLISM  
 HYPOTENSION  
 0405 0408  
 BT BLOOD PRESSURE  
 #PRESSURE  
 RT HEMORRHAGES  
 HYPOTHALAMUS  
 0404 0405 0408  
 RT BRAIN  
 HYPOTHERMIA  
 0404 0405 0408  
 RT BODY TEMPERATURE  
 SKIN TEMPERATURE (BIOLOGY)  
 THERMOREGULATION  
 HYPOTHESES  
 1902 2311 3406  
 RT EXPECTANCY HYPOTHESIS  
 INTERMITTENCY HYPOTHESIS  
 LAGRANGE SIMILARITY HYPOTHESIS  
 NULL HYPOTHESIS  
 VORTICITY TRANSPORT HYPOTHESIS  
 RT ASSUMPTIONS  
 INFERENCE  
 #MATHEMATICAL LOGIC  
 QUALITY CONTROL  
 #THEOREMS  
 THEORIES  
 THESESES  
 HYPOTONIA  
 0405 0408  
 BT MUSCULAR TONUS  
 HYPOVENTILATION  
 0405 0408  
 BT #RATES (PER TIME)  
 RESPIRATORY RATE  
 HYPOVOLEMIA  
 0405 0408  
 RT BLOOD CIRCULATION  
 HYPOXEMIA  
 0405 0408  
 BT OXYGEN TENSION  
 PARTIAL PRESSURE  
 #PRESSURE  
 RT HYPOXIA  
 HYPOXIA  
 0405 0408  
 UP OXYGEN DEFICIENCY  
 RT ANOXIA  
 HYPOXEMIA  
 OXIMETRY  
 OXYGEN CONSUMPTION  
 #STRESS (PHYSIOLOGY)  
 HYPSONETERS  
 0409 1406  
 BT #MEASURING INSTRUMENTS  
 RT ALTIMETERS  
 BAROMETERS  
 METEOROLOGICAL INSTRUMENTS  
 PRESSURE GAGES  
 HYSTERESIS  
 1201 3304 3408  
 RT ACCURACY  
 ANTIFERROELECTRICITY  
 ANTIFERROMAGNETISM  
 DAMPING  
 #DYNAMIC CHARACTERISTICS  
 EDDY CURRENTS  
 #ELECTRICAL PROPERTIES  
 ERRORS  
 INTERNAL FRICTION  
 MAGNETIC PERMEABILITY  
 #MAGNETIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 PHYSICAL PROPERTIES  
 PRECISION  
 RETARDING  
 SHEAR PROPERTIES  
 TENSILE STRENGTH  
 TIME LAG  
 TOLERANCES (MECHANICS)  
 VISCOELASTICITY  
 VISCOPLASTICITY



# IDENTITIES

#RECOGNITION  
SPECTRAL SIGNATURES  
#TRACKING (POSITION)  
WISWESSER NOTATIONS  
IDENTITIES  
1902  
RT CONGRUENCES  
EQUATIONS  
IDEP (DATA EXCHANGE)  
USE INTERSERVICE DATA EXCHANGE PROGRAM  
IDLERS  
1504  
RT #BEARINGS  
GEARS  
PULLEYS  
ROLLERS  
VEHICULAR TRACKS  
IFR (RULES)  
USE INSTRUMENT FLIGHT RULES  
IGNEOUS ROCKS  
1806 1306  
UP PELSITE  
NT ANDESITE  
ANORTHOSITE  
BASALT  
DIORITE  
DUNITE  
ENSTATITE  
GRANITE  
LAVA  
MAGMA  
MOLDAVITE  
OBSIDIAN  
OLIVINE  
PERIDOTITE  
PUMICE  
PYROXENES  
QUARTZ  
SERPENTINE  
SYENITE  
TRACHYTE  
ROCKS  
RT BRECCIA  
ECLOGITE  
FELDSPARS  
ILMENITE  
MICA  
#MINERALS  
SEDIMENTARY ROCKS  
#SOILS  
SPINEL  
TOURNALINE  
IGNIMBRITE  
USE LAVA  
#IGNITERS  
2805 2806 2808 3301  
NT BOOSTERS (EXPLOSIVES)  
CAPS (EXPLOSIVES)  
DETONATORS  
HI-LO IGNITERS  
INITIATORS (EXPLOSIVES)  
PRIMERS (EXPLOSIVES)  
SQUIBS  
RT AMMUNITION  
ELECTRIC IGNITION  
#EXPLOSIVE DEVICES  
IGNITION  
IGNITION SYSTEMS  
INCENDIARY AMMUNITION  
PYROPHORIC MATERIALS  
SOLID PROPELLANT IGNITION  
SPARK PLUGS  
IGNITION  
2808 3102 3301 3302 3407  
UP REIGNITION  
NT ELECTRIC IGNITION  
SOLID PROPELLANT IGNITION  
SPARK IGNITION  
RT #COMBUSTION  
COMBUSTION PHYSICS  
#FIRING (IGNITING)  
FLAME PROPAGATION  
FLAMMABILITY  
FLASH POINT  
FUEL COMBUSTION  
#IGNITERS  
IGNITION LIMITS  
IGNITION SYSTEMS  
IGNITION TEMPERATURE  
PROPELLANT COMBUSTION  
ROASTING  
SPARKS

SPONTANEOUS COMBUSTION  
STARTING  
IGNITION LIMITS  
0602 2701 2702 3301  
RT #COMBUSTION  
FLAMMABILITY  
FUEL-AIR RATIO  
GAS MIXTURES  
IGNITION  
LIMITS  
IGNITION SYSTEMS  
0602 2801 2806 3301  
RT AUTOMOBILES  
DISTRIBUTORS  
DWELL  
#ELECTRIC COILS  
ELECTRIC IGNITION  
#ENGINES  
#IGNITERS  
IGNITION  
INTERNAL COMBUSTION ENGINES  
ROCKET ENGINES  
SPARK PLUGS  
SQUIBS  
STARTERS  
SYSTEMS  
IGNITION TEMPERATURE  
0602 2701 2702 2801 2805 3301  
UP SPONTANEOUS IGNITION TEMPERATURE  
NT FLASH POINT  
BT #TEMPERATURE  
RT COMBUSTION TEMPERATURE  
FLAMMABILITY  
IGNITION  
PROPELLANT SENSITIVITY  
PYROPHORIC MATERIALS  
SOLID PROPELLANT IGNITION  
SPONTANEOUS COMBUSTION  
IGNITRONS  
0905 1002 1507  
BT #RECTIFIERS  
IGY (GEOPHYSICAL YEAR)  
USE INTERNATIONAL GEOPHYSICAL YEAR  
IL-14 AIRCRAFT  
0207  
UP ILYUSHIN IL-14 AIRCRAFT  
BT ILYUSHIN AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT  
IL-28 AIRCRAFT  
0207  
UP ILYUSHIN IL-28 AIRCRAFT  
BT BOMBER AIRCRAFT  
ILYUSHIN AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
IL-62 AIRCRAFT  
0204  
UP CLASSIC AIRCRAFT  
ILYUSHIN IL-62 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
ILYUSHIN AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TURBOPAN AIRCRAFT  
ILLIAC 4 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
ILLIAC COMPUTERS  
ILLIAC COMPUTERS  
0801  
NT ILLIAC 4 COMPUTER  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
ILLINOIS  
1305  
BT UNITED STATES OF AMERICA  
ILLITE  
1806  
BT #MINERALS  
ILLUMINANCE  
0605 2306 2310 2402 3408  
(DETECTION RATE PER UNIT AREA OF  
VISIBLE RADIATION--EQUALS LIGHT  
PRESSURE TIMES SPEED OF LIGHT)  
UP LIGHT PRESSURE  
BT FLUX DENSITY  
IRRADIANCE

# NASA THESAURUS (ALPHABETICAL LISTING)

LUMINOUS INTENSITY  
#PRESSURE  
RADIANT FLUX DENSITY  
RADIATION PRESSURE  
#RATES (PER TIME)  
RT BRIGHTNESS  
ILLUMINATING  
ILLUMINATION  
LIGHT (VISIBLE RADIATION)  
LUMINANCE  
LUMINOSITY  
RADIANCY  
SOLAR CONSTANT  
SOLAR FLUX DENSITY  
VISIBILITY  
ILLUMINATING  
0605 2306 2310 2402  
UP LIGHTING  
RT ARCHITECTURE  
BRIGHTNESS  
COMFORT  
DARKNESS  
ENVIRONMENTAL ENGINEERING  
FLARES  
GLARE  
HUMAN FACTORS ENGINEERING  
ILLUMINANCE  
ILLUMINATION  
LIGHT SOURCES  
LIGHT TRANSMISSION  
#LIGHTING EQUIPMENT  
LUMINAIRES  
LUMINANCE  
PHOTOMETRY  
PROJECTION  
PROJECTORS  
PYROTECHNICS  
SHADOWS  
ILLUMINATION  
0605 2306 2310 2402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BRIGHTNESS DISCRIMINATION  
DARKENING  
DARKNESS  
ILLUMINANCE  
ILLUMINATING  
ILLUMINATORS  
ISOPHOTES  
LIGHT TRANSMISSION  
LUMINESCENCE  
PHOTOMETRY  
ILLUMINATORS  
0605 0904 2306 2310 2402  
BT LIGHT SOURCES  
RT #LIGHTING EQUIPMENT  
ILLUMINATION  
INCANDESCENCE  
LUMINESCENCE  
ILLUSIONS  
0408 2310  
NT ELEVATOR ILLUSION  
HALLUCINATIONS  
MOON ILLUSION  
OCULOGRAVIC ILLUSIONS  
BT #PSYCHOLOGICAL EFFECTS  
RT AFTERIMAGES  
IMAGES  
#PERCEPTION  
VISION  
ILMENITE  
1806  
BT #CHALCOGENIDES  
#IRON COMPOUNDS  
IRON OXIDES  
METAL OXIDES  
#MINERALS  
OXIDES  
TITANATES  
#TITANIUM COMPOUNDS  
TITANIUM OXIDES  
RT IGNEOUS ROCKS  
SANDS  
ILS (LANDING SYSTEMS)  
USE INSTRUMENT LANDING SYSTEMS  
ILYUSHIN AIRCRAFT  
0204 0207  
NT IL-14 AIRCRAFT  
IL-28 AIRCRAFT  
IL-62 AIRCRAFT  
RT AIRCRAFT

# **NASA THESAURUS (ALPHABETICAL LISTING)**

ILYUSHIN IL-14 AIRCRAFT  
 USE IL-14 AIRCRAFT  
 ILYUSHIN IL-28 AIRCRAFT  
 USE IL-28 AIRCRAFT  
 ILYUSHIN IL-62 AIRCRAFT  
 USE IL-62 AIRCRAFT  
 IMAGE CONTRAST  
 0702 1407 1412 2310  
 BT CONTRAST  
 BT FOCUSING  
 IMAGE INTENSIFIERS  
 PATTERN REGISTRATION  
 #RESOLUTION  
 SELF FOCUSING  
 SIGNAL TO NOISE RATIOS  
 SNEAR  
 VISIBILITY  
 IMAGE CONVERTERS  
 0903 1407  
 NT CELESCOPES  
 IMAGE TUBES  
 THERMICON  
 BT #OPTICAL EQUIPMENT  
 RT CAMERA TUBES  
 CONVERTERS  
 IMAGE FILTERS  
 IMAGE INTENSIFIERS  
 IMAGE ORTHICONS  
 IMAGE TRANSDUCERS  
 IMAGE VELOCITY SENSORS  
 LALLEMAND CAMERAS  
 LIGHT AMPLIFIERS  
 MICROCHANNELS  
 PHOTOCATHODES  
 IMAGE CORRELATORS  
 1303 1401 1407  
 UP SIMICOR (IMAGE CORRELATOR)  
 SIMULTANEOUS IMAGE CORRELATOR  
 RT HOLOGRAPHY  
 IMAGE ENHANCEMENT  
 IMAGE FILTERS  
 IMAGING TECHNIQUES  
 MAP MATCHING GUIDANCE  
 PATTERN REGISTRATION  
 IMAGE DISSECTOR TUBES  
 0702 0903  
 BT CAMERA TUBES  
 #ELECTRON TUBES  
 TELEVISION EQUIPMENT  
 RT GUIDANCE SENSORS  
 SATELLITE ORIENTATION  
 IMAGE ENHANCEMENT  
 2306 2309 2311  
 BT IMAGING TECHNIQUES  
 BT FOCUSING  
 IMAGE CORRELATORS  
 IMAGE FILTERS  
 IMAGE INTENSIFIERS  
 IMAGES  
 LIGHT AMPLIFIERS  
 #RESOLUTION  
 SIGNAL TO NOISE RATIOS  
 IMAGE FILTERS  
 1407 1412 1802 2310  
 RT FILTERS  
 IMAGE CONVERTERS  
 IMAGE CORRELATORS  
 IMAGE ENHANCEMENT  
 IMAGE INTENSIFIERS  
 IMAGE TRANSDUCERS  
 IMAGING TECHNIQUES  
 IMAGE FURNACES  
 1108 2306 2310  
 BT FURNACES  
 #HEATING EQUIPMENT  
 LABORATORY EQUIPMENT  
 RT ARC HEATING  
 CARBON ARCS  
 IMAGE INTENSIFIERS  
 1413 1601 2306  
 UP INTENSIFIER TUBES  
 NT IMAGE ORTHICONS  
 BT #INTENSIFIERS  
 RT #AMPLIFIERS  
 IMAGE CONTRAST  
 IMAGE CONVERTERS  
 IMAGE ENHANCEMENT  
 IMAGE FILTERS  
 IMAGE TRANSDUCERS  
 IMAGING TECHNIQUES  
 LALLEMAND CAMERAS  
 LIGHT AMPLIFIERS

NIGHT VISION  
 ORTHICONS  
 PHOSPHORS  
 PHOTOCATHODES  
 IMAGE MOTION COMPENSATION  
 1407 2310  
 RT AERIAL PHOTOGRAPHY  
 COMPENSATION  
 IMAGING TECHNIQUES  
 PATTERN REGISTRATION  
 IMAGE ORTHICONS  
 0702 0903  
 BT CAMERA TUBES  
 #ELECTRON TUBES  
 IMAGE INTENSIFIERS  
 #INTENSIFIERS  
 ORTHICONS  
 RT IMAGE CONVERTERS  
 PHOTOCATHODES  
 IMAGE TRANSDUCERS  
 1413 2306  
 BT #TRANSDUCERS  
 RT CAMERA TUBES  
 IMAGE CONVERTERS  
 IMAGE FILTERS  
 IMAGE INTENSIFIERS  
 IMAGING TECHNIQUES  
 LALLEMAND CAMERAS  
 IMAGE TUBES  
 0702 0903  
 NT THERMICON  
 BT IMAGE CONVERTERS  
 #OPTICAL EQUIPMENT  
 RT CATHODE RAY TUBES  
 #DISPLAY DEVICES  
 FLYING SPOT SCANNERS  
 HEAD-UP DISPLAYS  
 IMAGE VELOCITY SENSORS  
 MONOSCOPES  
 IMAGE VELOCITY SENSORS  
 2308 2311  
 BT IMAGES  
 RT IMAGE CONVERTERS  
 IMAGE TUBES  
 IMAGING TECHNIQUES  
 SENSORS  
 #IMAGERY  
 2310  
 NT AERIAL PHOTOGRAPHY  
 ALL SKY PHOTOGRAPHY  
 ASTRONOMICAL PHOTOGRAPHY  
 AUTORADIOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 CHRONOPHOTOGRAPHY  
 CINEMATOPHOTOGRAPHY  
 CLOUD PHOTOGRAPHY  
 COLOR PHOTOGRAPHY  
 ELECTRO-OPTICAL PHOTOGRAPHY  
 ELECTRON PHOTOGRAPHY  
 HOLOGRAPHY  
 INFRARED IMAGERY  
 INFRARED PHOTOGRAPHY  
 KINOPHOTO  
 LUNAR PHOTOGRAPHY  
 MICROWAVE IMAGERY  
 MICROWAVE PHOTOGRAPHY  
 PHOTOMICROGRAPHY  
 PHOTORECONNAISSANCE  
 RADAR IMAGERY  
 RADAR PHOTOGRAPHY  
 RADIOGRAPHY  
 REPRODUCTION (COPYING)  
 ROCKET-BORNE PHOTOGRAPHY  
 SATELLITE-BORNE PHOTOGRAPHY  
 SCHLIEREN PHOTOGRAPHY  
 SHADOWGRAPH PHOTOGRAPHY  
 SPACEBORNE PHOTOGRAPHY  
 SPECTROHELIOGRAPHS  
 SPECTROPHOTOGRAPHY  
 STEREOPHOTOGRAPHY  
 ULTRAVIOLET PHOTOMETRY  
 UROGRAPHY  
 XEROGRAPHY  
 RT #DISPLAY DEVICES  
 EARTH RESOURCES  
 GRAPHIC ARTS  
 GROUND TRUTH  
 MULTISPECTRAL PHOTOGRAPHY  
 #PHOTOGRAPHY  
 RADAR SIGNATURES  
 SIGNATURE ANALYSIS

## **IMMUNOLOGY**

IMAGES  
 0408 1407 2310  
 UP OPTICAL IMAGES  
 NT AFTERIMAGES  
 IMAGE VELOCITY SENSORS  
 RETINAL IMAGES  
 RT #DISPLAY DEVICES  
 EVAPOROGRAPHY  
 HALOS  
 ILLUSIONS  
 IMAGE ENHANCEMENT  
 #PERCEPTION  
 PHOTOGRAPHS  
 REPRESENTATIONS  
 SPATIAL FILTERING  
 VISION  
 IMAGING TECHNIQUES  
 0702 1401 1406 1407 1409 2310 2311  
 RT IMAGE ENHANCEMENT  
 RADAR IMAGERY  
 RT IMAGE CORRELATORS  
 IMAGE FILTERS  
 IMAGE INTENSIFIERS  
 IMAGE MOTION COMPENSATION  
 IMAGE TRANSDUCERS  
 IMAGE VELOCITY SENSORS  
 METHODOLOGY  
 MULTISPECTRAL BAND SCANNERS  
 MULTISPECTRAL PHOTOGRAPHY  
 OPTICS  
 PATTERN REGISTRATION  
 #PHOTOGRAPHY  
 TELEVISION SYSTEMS  
 IMBEDDINGS  
 0601 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ENCAPSULATING  
 IMBEDDINGS (MATHEMATICS)  
 INVARIANT IMBEDDINGS  
 IMBEDDINGS (MATHEMATICS)  
 1902  
 NT INVARIANT IMBEDDINGS  
 BT #GEOMETRY  
 TOPOLOGY  
 RT IMBEDDINGS  
 IMCC (CONTROL CENTER)  
 USE INTEGRATED MISSION CONTROL CENTER  
 IMIDES  
 0602  
 NT SUCCINIMIDES  
 BT #NITROGEN COMPOUNDS  
 RT AMIDES  
 IMINES  
 0602  
 UP SCHIFF BASES  
 BT #NITROGEN COMPOUNDS  
 RT #AMINES  
 IMLS  
 0504 0507  
 UP INTEGRATED MANEUVERING & LIFE  
 SUPPORT SYS  
 BT LIFE SUPPORT SYSTEMS  
 PORTABLE LIFE SUPPORT SYSTEMS  
 SELF MANEUVERING UNITS  
 RT ASTRONAUT MANEUVERING EQUIPMENT  
 EXTRAVEHICULAR ACTIVITY  
 IMMERSION  
 USE SUBMERGING  
 IMMISCIBILITY  
 USE SOLUBILITY  
 IMMITTANCE  
 USE ELECTRICAL IMPEDANCE  
 IMMOBILIZATION  
 0404 3401 3407  
 RT #DAMAGE  
 IMPAIRMENT  
 MOTION  
 IMMUNITY  
 0404 0405 0504  
 RT INFECTIOUS DISEASES  
 INOCULATION  
 RESISTANCE  
 TOXINS AND ANTITOXINS  
 IMMUNOLOGY  
 0404 0405 0504  
 BT #MEDICAL SCIENCE  
 RT ALLERGIC DISEASES  
 ANTIBODIES  
 ANTIGENS  
 ANTISERUMS



## IMP

BIOLOGY  
KEROSENE POISONING  
PROPHYLAXIS

IMP 3004 3107 3409  
UF IMP-E  
BT INTERPLANETARY MONITORING PLATFORM  
#ARTIFICIAL SATELLITES  
#SATELLITES

IMP-A  
USE EXPLORER 18 SATELLITE  
IMP-B  
USE EXPLORER 21 SATELLITE  
IMP-C  
USE EXPLORER 28 SATELLITE  
IMP-D  
USE EXPLORER 33 SATELLITE  
IMP-E  
USE EXPLORER 35 SATELLITE  
IMP  
IMP-F  
USE EXPLORER 34 SATELLITE  
IMP-G  
USE EXPLORER 41 SATELLITE  
IMP-I  
USE EXPLORER 43 SATELLITE  
IMPACT  
2308 2403 2405 2903 3009 3105 3201  
NT ELECTRON IMPACT  
HYPERVELOCITY IMPACT  
ION IMPACT  
POINT IMPACT  
PROTON IMPACT  
RT DECELERATION  
IMPACT ACCELERATION  
IMPINGEMENT  
MECHANICAL SHOCK  
PENETRATION  
PERCUSSION  
#PRESSURE  
SHOCK ABSORBERS  
SHOCK RESISTANCE  
SHOCK WAVES  
#STRESSES  
IMPACT ACCELERATION  
0401 0408 0506 1108 2308 3201 3203  
UF IMPACT DECELERATION  
BT ACCELERATION (PHYSICS)  
#RATES (PER TIME)  
RT DECELERATION  
IMPACT  
IMPACT DAMAGE  
MECHANICAL SHOCK  
PHYSIOLOGICAL ACCELERATION  
RAILROAD HUMMING TESTS  
SHOCK ABSORBERS  
IMPACT DAMAGE  
0401 0508 2308 3005 3201 3203  
NT METEORITIC DAMAGE  
RAIN IMPACT DAMAGE  
BT #DAMAGE  
RT CRATERING  
#CRATERS  
IMPACT ACCELERATION  
IMPACT LOADS  
IMPACT TOLERANCES  
METEOROID PROTECTION  
IMPACT DECELERATION  
USE DECELERATION  
IMPACT ACCELERATION  
IMPACT LOADS  
0405 2308 3201 3203  
UF IMPACT PRESSURES  
BT COMPRESSION LOADS  
DYNAMIC LOADS  
#LOADS (FORCES)  
#PRESSURE  
TRANSIENT LOADS  
BLAST LOADS  
DYNAMIC PRESSURE  
IMPACT DAMAGE  
IMPACT TOLERANCES  
LANDING LOADS  
LOADING RATE  
RANDOM LOADS  
SHOCK LOADS  
IMPACT PREDICTION  
2308 3006 3201  
UF ARIP (IMPACT PREDICTION)  
AUTOMATIC ROCKET IMPACT PREDICTORS  
BT #PREDICTIONS  
RT BALLISTIC TRAJECTORIES

DOWNRANGE  
#GUIDANCE (MOTION)  
MISSILE TRAJECTORIES  
RANGE SAFETY  
REENTRY  
TRAJECTORY ANALYSIS  
IMPACT PRESSURES  
USE IMPACT LOADS  
IMPACT RESISTANCE  
3201 3203 3302  
UF IMPACT SENSITIVITY  
BT #SENSITIVITY  
SHOCK RESISTANCE  
RT PROPELLANT SENSITIVITY  
TOLERANCES (PHYSIOLOGY)  
IMPACT SENSITIVITY  
USE IMPACT RESISTANCE  
IMPACT STRENGTH  
3201 3203 3302  
BT #MECHANICAL PROPERTIES  
RT BRITTLE MATERIALS  
BRITTLENESS  
DUCTILITY  
HARDNESS  
IMPACT TOLERANCES  
NOTCH SENSITIVITY  
RESISTANCE  
SHEAR PROPERTIES  
STRESS CONCENTRATION  
WAVE RESISTANCE  
IMPACT TESTING MACHINES  
1108 3201 3203  
RT IMPACT TESTS  
TEST EQUIPMENT  
IMPACT TESTS  
0401 0508 1108 3201 3203  
NT CHARTY IMPACT TEST  
RT BRITTLENESS  
COMPRESSION TESTS  
DESTRUCTIVE TESTS  
DROP TESTS  
FATIGUE TESTS  
HARDNESS TESTS  
IMPACT TESTING MACHINES  
IMPACT TOLERANCES  
IMPACTORS  
LOAD TESTS  
MATERIALS TESTS  
NOTCH SENSITIVITY  
NOTCH STRENGTH  
NOTCH TESTS  
SHOCK TESTS  
STRAIN RATE  
STRESS CONCENTRATION  
TESTS  
TOUGHNESS  
IMPACT TOLERANCES  
0401 2308 3201 3203  
BT TOLERANCES (MECHANICS)  
RT IMPACT DAMAGE  
IMPACT LOADS  
IMPACT STRENGTH  
IMPACT TESTS  
IMPACTORS  
3201 3203  
RT CRUSHERS  
GRINDING MILLS  
HAMMERS  
IMPACT TESTS  
IMPAIRMENT  
0404 3401 3407  
RT #DAMAGE  
IMMOBILIZATION  
#INJURIES  
LOSSES  
#IMPEDANCE  
1001 1002 1201 1202 2301 2311  
UF DUMMY LOADS  
NT ACOUSTIC IMPEDANCE  
CONTACT RESISTANCE  
ELECTRICAL IMPEDANCE  
ELECTRICAL RESISTANCE  
LC CIRCUITS  
MECHANICAL IMPEDANCE  
REACTANCE  
RESPIRATORY IMPEDANCE  
SKIN RESISTANCE  
RT ATTENUATION COEFFICIENTS  
BANDWIDTH  
CHOKES (RESTRICTIONS)  
CONDUCTIVITY  
CONSTRICTIONS

## NASA THESAURUS (ALPHABETICAL LISTING)

DAMPING  
DIFFUSIVITY  
#DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
#ELECTRIC COILS  
#ELECTRICAL PROPERTIES  
HYDRAULICS  
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0104 2805  
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0410 2311  
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RT #FLIGHT CONTROL  
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0605 0903 1507 2306 3303  
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BT AMMUNITION  
RT BOMBS (ORDNANCE)  
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1901 2307 3006  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
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RT GEOMAGNETISM  
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2311 3408  
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BT #SCATTERING  
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1202 3408  
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RT INDEXES (DOCUMENTATION)  
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# NASA THESAURUS (ALPHABETICAL LISTING)

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 0703 0802 3405  
 RT ANNOTATIONS  
 #COMMUNICATING  
 #COMMUNICATION  
 DATA  
 INFORMATION FLOW  
 INFORMATION THEORY  
 NEWS MEDIA  
 PRESENTATION  
 INFORMATION DISSEMINATION  
 0703 0803 3405  
 NT SELECTIVE DISSEMINATION OF  
 INFORMATION  
 BT #COMMUNICATING  
 #COMMUNICATION  
 RT BIBLIOGRAPHIES  
 CATALOGS (PUBLICATIONS)  
 DOCUMENTATION  
 INDEXES (DOCUMENTATION)  
 INFORMATION FLOW  
 INFORMATION MANAGEMENT  
 INFORMATION RETRIEVAL  
 LIBRARIES  
 REPORTS  
 SUMMARIES

# INFORMATION FLOW

INFORMATION FLOW  
0802 3405 3406  
RT #COMMUNICATING  
#COMMUNICATION  
FLOW  
INFORMATION  
INFORMATION DISSEMINATION  
INFORMATION MANAGEMENT  
#MANAGEMENT  
SELECTIVE DISSEMINATION OF  
INFORMATION  
TECHNOLOGY TRANSFER  
INFORMATION MANAGEMENT  
3405 3406  
BT #MANAGEMENT  
RT #COMMUNICATING  
#COMMUNICATION  
DATA RETRIEVAL  
DATA STORAGE  
INFORMATION DISSEMINATION  
INFORMATION FLOW  
TECHNOLOGY TRANSFER  
INFORMATION RETRIEVAL  
0802 0803 3405 0703  
BT RETRIEVAL  
RT ABSTRACTS  
BIBLIOGRAPHIES  
COMPUTERS  
DATA RETRIEVAL  
DOCUMENTATION  
#DOCUMENTS  
INDEXES (DOCUMENTATION)  
INFORMATION DISSEMINATION  
INFORMATION SYSTEMS  
INFORMATION THEORY  
INTERSERVICE DATA EXCHANGE PROGRAM  
LIBRARIES  
MANAGEMENT INFORMATION SYSTEMS  
SEARCH PROFILES  
SELECTIVE DISSEMINATION OF  
INFORMATION  
SPACE GLOSSARIES  
SUBJECTS  
INFORMATION SYSTEMS  
0703 0803 3405 3406  
RT MANAGEMENT INFORMATION SYSTEMS  
RT INFORMATION RETRIEVAL  
LIBRARIES  
MANAGEMENT SYSTEMS  
SELECTIVE DISSEMINATION OF  
INFORMATION  
SYSTEMS  
SYSTEMS MANAGEMENT  
INFORMATION THEORY  
0802 3405 0703  
UF SHANNON INFORMATION THEORY  
RT APPLICATIONS OF MATHEMATICS  
AUTOMATA THEORY  
AUTOMATION  
BCH CODES  
CODING  
COMBINATORIAL ANALYSIS  
#COMMUNICATION THEORY  
COMPUTERS  
CORRECTION  
CORRELATION  
CYBERNETICS  
#DATA PROCESSING  
DATA TRANSMISSION  
DECISION THEORY  
ERGODIC PROCESS  
ERROR DETECTION CODES  
FOURIER ANALYSIS  
GAME THEORY  
INFORMATION  
INFORMATION RETRIEVAL  
LOGIC  
MACHINE TRANSLATION  
MANAGEMENT INFORMATION SYSTEMS  
MATHEMATICS  
MESSAGES  
NOISE  
OPERATIONS RESEARCH  
PARITY  
PHASE SHIFT KEYING  
PROBABILITY THEORY  
QUANTUM AMPLIFIERS  
RANDOM PROCESSES  
REDUNDANCY  
SHANNON-WIENER MEASURE  
#STATISTICAL ANALYSIS  
STATISTICS

#STOCHASTIC PROCESSES  
SYSTEMS ENGINEERING  
#TELECOMMUNICATION  
TERMS  
THEORIES  
INFORMATION TRANSFER  
USE #COMMUNICATING  
INFORMATION TRANSMISSION  
USE DATA TRANSMISSION  
INFRARED ASTRONOMY  
0903 1404 1411 3001  
BT ASTRONOMICAL PHOTOGRAPHY  
INFRARED DETECTORS  
1404 1406 1409 2402  
BT ACTINOMETERS  
#MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
RADIOMETERS  
RT ELECTROMAGNETIC MEASUREMENT  
FOREST FIRE DETECTION  
INFRARED RADIATION  
INFRARED FILTERS  
1404 1802  
BT #ELECTRIC FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
OPTICAL FILTERS  
RT INFRARED INSTRUMENTS  
INFRARED SPECTRA  
ULTRAVIOLET FILTERS  
INFRARED HORIZON SCANNERS  
USE HORIZON SCANNERS  
INFRARED SCANNERS  
INFRARED IMAGERY  
1404 1407  
BT #IMAGERY  
#PHOTOGRAPHY  
RT INFRARED PHOTOGRAPHY  
INFRARED INSPECTION  
0602 1404  
BT INSPECTION  
RT QUALITY CONTROL  
INFRARED INSTRUMENTS  
1404 1406  
BT #MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
RT FOREST FIRE DETECTION  
INFRARED FILTERS  
INFRARED LASERS  
1404 1601  
UF INFRARED MASERS  
IRASERS  
BT LASERS  
#STIMULATED EMISSION DEVICES  
RT ARGON LASERS  
CARBON DIOXIDE LASERS  
CARBON MONOXIDE LASERS  
CHEMICAL LASERS  
GAS LASERS  
LIQUID LASERS  
ORGANIC LASERS  
SOLID STATE LASERS  
INFRARED MASERS  
USE INFRARED LASERS  
INFRARED PHOTOGRAPHY  
1401 1404 1407 2003 2004  
BT #IMAGERY  
MULTISPECTRAL PHOTOGRAPHY  
#PHOTOGRAPHY  
RT AERIAL PHOTOGRAPHY  
ASTRONOMICAL PHOTOGRAPHY  
BLACK AND WHITE PHOTOGRAPHY  
CINEMATOGRAPHY  
FOREST FIRE DETECTION  
ICE MAPPING  
INFRARED IMAGERY  
LUNAR PHOTOGRAPHY  
METEOROLOGICAL SATELLITES  
MINIBUS SATELLITES  
RADIOMETERS  
SATELLITE-BORNE PHOTOGRAPHY  
TIMBER INVENTORY  
ULTRAVIOLET PHOTOGRAPHY  
INFRARED RADIATION  
1404 2311 2402  
RT FAR INFRARED RADIATION  
NEAR INFRARED RADIATION  
BT #ELECTROMAGNETIC RADIATION  
RT #BEAMS (RADIATION)  
BLACK BODY RADIATION  
COHERENT ELECTROMAGNETIC RADIATION  
#ENERGY ABSORPTION  
EVAPOROGRAPHY

# NASA THESAURUS (ALPHABETICAL LISTING)

HEAT  
INFRARED DETECTORS  
INFRARED SPECTROSCOPY  
LIGHT (VISIBLE RADIATION)  
MICROWAVES  
MONOCHROMATIC RADIATION  
PLANETARY RADIATION  
POLARIZED ELECTROMAGNETIC RADIATION  
SOLAR RADIATION  
SUNLIGHT  
TERRESTRIAL RADIATION  
THERMAL RADIATION  
WAVELENGTHS  
XENON LAMPS  
INFRARED REFLECTION  
1802 2402  
BT REFLECTION  
RT OPTICAL REFLECTION  
RADIATIVE HEAT TRANSFER  
RADIO ECHOES  
ULTRAVIOLET REFLECTION  
INFRARED SCANNERS  
1404 2402  
UF INFRARED HORIZON SCANNERS  
RT MULTISPECTRAL BAND SCANNERS  
BT ACTINOMETERS  
#MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
RADIOMETERS  
#SCANNERS  
RT FOREST FIRE DETECTION  
HORIZON SCANNERS  
#OPTICAL EQUIPMENT  
SCANNER PROJECT  
INFRARED SPECTRA  
2311 2402  
BT ELECTROMAGNETIC SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION  
EMISSION SPECTRA  
INFRARED FILTERS  
INFRARED SPECTROSCOPY  
LINE SPECTRA  
MICROWAVE SPECTRA  
MOLECULAR SPECTRA  
SOLAR SPECTRA  
STELLAR SPECTRA  
INFRARED SPECTROMETERS  
1404 1406  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
SPECTROMETERS  
RT EBERT SPECTROMETERS  
INFRARED SPECTROPHOTOMETERS  
SOLAR SPECTROMETERS  
INFRARED SPECTROPHOTOMETERS  
1404 1407 1411  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
SPECTROPHOTOMETERS  
RT CHEMICAL ANALYSIS  
INFRARED SPECTROMETERS  
PHOTOMETERS  
INFRARED SPECTROSCOPY  
1404 1411 2003 2402  
BT #SPECTROSCOPY  
RT ABSORPTION SPECTROSCOPY  
ASTRONOMICAL SPECTROSCOPY  
CHEMICAL ANALYSIS  
INFRARED RADIATION  
INFRARED SPECTRA  
MOLECULAR SPECTROSCOPY  
MOLECULAR STRUCTURE  
RAIAN SPECTROSCOPY  
SPECTROMETERS  
SPECTROSCOPIC ANALYSIS  
VACUUM SPECTROSCOPY  
INFRARED STARS  
3001 3002 3009  
BT #CELESTIAL BODIES  
STARS  
INFRARED TRACKING  
0709 1109 1404 2102  
BT #TRACKING (POSITION)  
RT ANTIMISSILE MISSILES  
COMPENSATORY TRACKING  
HOMING DEVICES  
MISSILE TRACKING  
OPTICAL TRACKING

**NASA THESAURUS (ALPHABETICAL LISTING)**

PURSUIT TRACKING  
RADIOMETERS  
INFRASONIC FREQUENCIES  
0710 2311  
NT MICROSONICS  
BT #FREQUENCIES  
RT ACOUSTICS  
INGESTION  
0404 0405 0411 0506  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT INGESTION (BIOLOGY)  
INGESTION (ENGINES)  
INGESTION (BIOLOGY)  
0404 0405 0411 0506  
NT DRINKING  
EATING  
RT INGESTION  
SWALLOWING  
INGESTION (ENGINES)  
2801  
RT ENGINE FAILURE  
INGESTION  
INGOTS  
1704 3404  
BT CASTINGS  
RT BILLETS  
CASTING  
MOLDS  
SOLIDIFICATION  
INGREDIENTS  
0603 1703 1704 1805  
RT ADMIXTURES  
COMPONENTS  
COMPOSITION  
FORMULATIONS  
#MIXTURES  
INHABITANTS  
0404 0504 0507 3402 3406  
NT MOUNTAIN INHABITANTS  
BT #COMMUNITIES  
RT ABORIGINES  
CITIES  
#PERSONNEL  
INHALATION  
USE RESPIRATION  
INHIBITION  
0408 0410  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ATTENUATION  
CORROSION PREVENTION  
DETACHMENT  
DITHERS  
FROSTATION  
HANDICAPS  
INHIBITION (PSYCHOLOGY)  
INHIBITORS  
INTROVERSION  
LETHARGY  
PASSIVITY  
PREVENTION  
STOPPING  
INHIBITION (PSYCHOLOGY)  
0408 0410  
RT CONDITIONING (LEARNING)  
INHIBITION  
INHIBITORS  
0602 2702  
NT WEAR INHIBITORS  
RT #ADDITIVES  
ANTIDOTES  
ANTIAGING ADDITIVES  
ANTIOXIDANTS  
CASE BONDED PROPELLANTS  
CATALYSTS  
#COATINGS  
CORROSION PREVENTION  
INHIBITION  
NEUTRALIZERS  
PACKAGING  
PASSIVITY  
PROPELLANT ADDITIVES  
PROPELLANT DECOMPOSITION  
PROPELLANT STORABILITY  
RETARDANTS  
SILENCERS  
SOLID PROPELLANT IGNITION  
SOLID PROPELLANTS  
SUPPRESSORS

INHOMOGENEITY  
3408  
OF NONHOMOGENEITY  
RT #DEFECTS  
HETEROGENEITY  
NONUNIFORMITY  
INHOOR EQUATION  
2202 2203 2204 2405  
RT EQUATIONS  
#NUCLEAR REACTIONS  
#NUCLEAR REACTORS  
REACTIVITY  
REACTOR PHYSICS  
INITIAL VALUE PROBLEMS  
USE BOUNDARY VALUE PROBLEMS  
INITIATION  
0404 1504 2311 3301 3302 3406 3407  
RT ACTIVATION  
ACTUATION  
DETONATION  
GENERATION  
INDUCTION  
INOCULATION  
NUCLEATION  
PRIMING  
REACTOR STARTUP TESTS  
STARTING  
STIMULATION  
INITIATORS  
3302  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CATALYSTS  
INITIATORS (EXPLOSIVES)  
INITIATORS (EXPLOSIVES)  
0604 3302 3401  
OF ELECTROEXPLOSIVE DEVICES  
RT BOOSTERS (EXPLOSIVES)  
CAPS (EXPLOSIVES)  
DETONATORS  
PRIMERS (EXPLOSIVES)  
BT #EXPLOSIVE DEVICES  
#IGNITERS  
RT FUSES (ORDNANCE)  
INITIATORS  
PYROTECHNICS  
#INJECTION  
0401 0405 1504 2801 2808 3102 3407  
NT CARRIER INJECTION  
FLUID INJECTION  
FUEL INJECTION  
GAS INJECTION  
ION INJECTION  
LIQUID INJECTION  
SECONDARY INJECTION  
TRANSEARTH INJECTION  
TRANSLUNAR INJECTION  
WATER INJECTION  
RT BLOWING  
BOUNDARY LAYER SEPARATION  
CHARGING  
FEEDING (SUPPLYING)  
FILLING  
#FLUID FLOW  
INJECTION LASERS  
INJECTORS  
INPUT  
PERFORATING  
SUPPLYING  
INJECTION CARBURETORS  
USE CARBURETORS  
FUEL INJECTION  
INJECTION GUIDANCE  
2102  
BT #GUIDANCE (MOTION)  
RT ASCERT TRAJECTORIES  
CELESTIAL NAVIGATION  
COMMAND GUIDANCE  
INERTIAL GUIDANCE  
MIDCOURSE GUIDANCE  
RENDEZVOUS GUIDANCE  
SATELLITE GUIDANCE  
SPACECRAFT GUIDANCE  
TRANSEARTH INJECTION  
TRANSLUNAR INJECTION  
INJECTION LASERS  
1601  
BT LASERS  
RT #STIMULATED EMISSION DEVICES  
GALLIUM ARSENIDE LASERS  
GALLIUM ARSENIDES

**INKS**

#INJECTION  
SEMICONDUCTOR LASERS  
INJECTORS  
2801 2806 2808  
NT VORTEX INJECTORS  
RT BLOWERS  
CARBURETORS  
EJECTORS  
FEEDERS  
FUEL INJECTION  
FUEL SYSTEMS  
#INJECTION  
JET FLOW  
JET MIXING FLOW  
JET NOZZLES  
JETS  
NOZZLE FLOW  
NOZZLES  
ORIFICES  
#PUMPS  
SPRAY NOZZLES  
INJUN EXPLORER  
USE EXPLORER 25 SATELLITE  
INJUN 1 SATELLITE  
2201 2903 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
INJUN SATELLITES  
#SATELLITES  
INJUN 2 SATELLITE  
2201 2903 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
INJUN SATELLITES  
#SATELLITES  
RT THOR ABLE ROCKET ENGINE  
INJUN 3 SATELLITE  
2201 2903 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
INJUN SATELLITES  
#SATELLITES  
INJUN 4 SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
INJUN SATELLITES  
#SATELLITES  
INJUN 5 SATELLITE  
USE EXPLORER 40 SATELLITE  
INJUN SATELLITES  
2201 2903 3107  
NT INJUN 1 SATELLITE  
INJUN 2 SATELLITE  
INJUN 3 SATELLITE  
INJUN 4 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
#INJURIES  
0408 0502 0506  
NT BACK INJURIES  
BAROTRAUMA  
BRAIN DAMAGE  
BURNS (INJURIES)  
CRASH INJURIES  
EJECTION INJURIES  
FROSTBITE  
LESIONS  
NOISE INJURIES  
PARACHUTING INJURY  
PARALYSIS  
PULMONARY LESIONS  
RADIATION INJURIES  
WHIPLASH INJURIES  
RT ACCIDENTS  
BLISTERS  
#DAMAGE  
DEATH  
DIAGNOSIS  
FOREIGN BODIES  
#HAZARDS  
HEMORRHAGES  
IMPAIRMENT  
WOUND HEALING  
INKS  
3405  
RT DRAWINGS  
GRAPHIC ARTS  
PIGMENTS  
PRINTING

# INLET FLOW

INLET FLOW  
1202 1203  
BT #FLUID FLOW  
RT DIFFUSERS  
FLOW GEOMETRY  
FLUID INJECTION  
HEAD FLOW  
INLET PRESSURE  
#INTAKE SYSTEMS  
PRESSURE DROP  
SUPERSONIC INLETS  
VORTEX GENERATORS  
INLET NOZZLES  
1201 1203 2805 2806 2808  
RT AIR INTAKES  
ANNULAR NOZZLES  
CONICAL NOZZLES  
DIFFUSERS  
ENGINE INLETS  
EXHAUST NOZZLES  
#INTAKE SYSTEMS  
INTERNAL COMPRESSION INLETS  
NOZZLES  
#OPENINGS  
PIPE NOZZLES  
INLET PRESSURE  
1408 2805  
BT #PRESSURE  
RT INLET FLOW  
PRESSURE GRADIENTS  
PRESSURE RECOVERY  
STAGNATION PRESSURE  
WATER PRESSURE  
INLETS (DEVICES)  
USE #INTAKE SYSTEMS  
INNER RADIATION BELT  
0411 1302 2903 3009  
BT CHARGED PARTICLES  
#EARTH ATMOSPHERE  
MAGNETICALLY TRAPPED PARTICLES  
#PARTICLES  
RADIATION BELTS  
TRAPPED PARTICLES  
RT ARTIFICIAL RADIATION BELTS  
OUTER RADIATION BELT  
PROTON BELTS  
INOCULATION  
0404 0405 2601 2602  
UF SEEDING (INOCULATION)  
RT CRYSTAL GROWTH  
CRYSTALLIZATION  
IMMUNITY  
INITIATION  
NUCLEATION  
VACCINES  
INOCULUM  
0405 0412  
BT SERUMS  
VACCINES  
RT ANTIBODIES  
ANTIGENS  
PHYSIOLOGICAL DEFENSES  
INORGANIC CHEMISTRY  
0603 1804  
RT ANALYTICAL CHEMISTRY  
CHEMISTRY  
INORGANIC COATINGS  
0603 1802 1804  
NT ANODIC COATINGS  
CERAMIC COATINGS  
BT #COATINGS  
RT ANTIRADAR COATINGS  
PROTECTIVE COATINGS  
#INORGANIC COMPOUNDS  
0603 1804  
NT AMMONIA  
LIQUID AMMONIA  
RT #ACIDS  
BASES  
CHEMICAL COMPOUNDS  
INORGANIC MATERIALS  
INTERMETALLICS  
SALTS  
INORGANIC MATERIALS  
1704 1804 1805  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED CONSULT THE TERMS LISTED  
BELOW)  
RT #INORGANIC COMPOUNDS  
NONFLAMMABLE MATERIALS  
#REFRACTORY MATERIALS  
THERMOCHROMATIC MATERIALS

VITREOUS MATERIALS  
INORGANIC NITRATES  
0603 1804  
NT AMMONIUM NITRATES  
HYDRAZINE NITRATE  
POTASSIUM NITRATES  
SILVER NITRATES  
SODIUM NITRATES  
BT NITRATES  
#NITROGEN COMPOUNDS  
INORGANIC PEROXIDES  
0603 1804  
UF SUPEROXIDES  
NT HYDROGEN PEROXIDE  
BT #CHALCOGENIDES  
OXIDES  
PEROXIDES  
INORGANIC SULFIDES  
0603 1804  
NT BARIUM SULFIDES  
BISMUTH SULFIDES  
CADMIUM SULFIDES  
CALCIUM SULFIDES  
COPPER SULFIDES  
ENARGITE  
HYDROGEN SULFIDE  
INDIUM SULFIDES  
LEAD SULFIDES  
MOLYBDENUM DISULFIDES  
MOLYBDENUM SULFIDES  
POLYSULFIDES  
STRONTIUM SULFIDES  
WURTZITE  
ZINC SULFIDES  
ZINCBLLENDE  
BT #CHALCOGENIDES  
SULFIDES  
#SULFUR COMPOUNDS  
INOSITOLS  
0402 0403 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
SUGARS  
INPUT  
0702 0703 0802 0902 1001 1406 1504  
RT ACCUMULATIONS  
COLLECTION  
FEEDING (SUPPLYING)  
FILLING  
#INJECTION  
LOADING  
OUTPUT  
READING  
REPLENISHMENT  
SUPPLYING  
INPUT/OUTPUT ROUTINES  
0802  
BT #COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
RT OPERATING SYSTEMS (COMPUTERS)  
ROUTINES  
INSECTICIDES  
0402 0404 0412 0504  
NT CARBAMATES (TRADENAME)  
DICHLORODIPHENYLTRICHLOROETHANE  
DIELDRIN  
PHENOTHAZINES  
URETHANES  
BT #POISONS  
RT ENDRIN  
ENTOMOLOGY  
TOXICOLOGY  
INSECTS  
0402 0404 0411  
NT BEES  
BEETLES  
CHIRONOMUS FLIES  
COCKROACHES  
COLEOPTERA  
CRICKETS  
DROSOPHILA  
GRASSHOPPERS  
MOTHS  
SILKWORMS  
TRIBOLIA  
BT #ANIMALS  
ARTHROPODS  
INVERTEBRATES  
RT ENTOMOLOGY  
LARVAE  
PUPA

# NASA THESAURUS (ALPHABETICAL LISTING)

INSENSITIVITY  
USE #SENSITIVITY  
INSERTION  
1104 3009 3102  
RT COLLATING  
EMBEDDING  
GRAFTING  
IMPREGNATING  
INSERTS  
NETWORK ANALYSIS  
TRANSMISSION LOSS  
INSERTION LOSS  
0702 0710 2402  
RT ENERGY DISSIPATION  
LOSSES  
TRANSMISSION LOSS  
INSERTS  
2806 2807  
NT NOZZLE INSERTS  
RT ACCESSORIES  
BUSHINGS  
#FASTENERS  
FITTINGS  
INSERTION  
LININGS  
SPACERS  
SPOOLS  
WASHERS (SPACERS)  
INSULATION  
1308 2902  
RT GREENHOUSE EFFECT  
#METEOROLOGY  
SOLAR HEATING  
SOLAR RADIATION  
SUNLIGHT  
INSOMNIA  
0405 0408  
BT SLEEP  
RT SLEEP DEPRIVATION  
INSPECTION  
1505 3404 3407  
NT INFRARED INSPECTION  
X RAY INSPECTION  
RT ACCEPTABILITY  
CHECKOUT  
#CHEMICAL TESTS  
CONSTRUCTION  
#DETECTION  
ENDOSCOPES  
EVALUATION  
EXAMINATION  
IDENTIFYING  
#NONDESTRUCTIVE TESTS  
PERFORMANCE TESTS  
QUALITY CONTROL  
SAMPLING  
SPECIFICATIONS  
STANDARDS  
STATIC TESTS  
#STATISTICAL ANALYSIS  
SURVEILLANCE  
TOLERANCES (MECHANICS)  
INSPECTOR SATELLITE  
0702 1404 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#MILITARY SPACECRAFT  
RECONNAISSANCE SPACECRAFT  
#SATELLITES  
INSPIRATION  
0404 3407  
RT #PSYCHOLOGY  
INSTABILITY  
USE #STABILITY  
INSTALLATION  
USE INSTALLING  
INSTALLATION MANUALS  
3404 3405 3406  
BT #DOCUMENTS  
MANUALS  
INSTALLING  
1504 3404 3407  
UF INSTALLATION  
RT ASSEMBLING  
CONSTRUCTION  
MAINTENANCE  
RELOCATION  
REPLACING  
INSTITUTIONS  
3402 3403 3406 3409  
NT BUREAUS (ORGANIZATIONS)  
RT FEDERATIONS

# NASA THESAURUS (ALPHABETICAL LISTING)

TEAMS  
INSTRUCTION SETS (COMPUTERS)  
0802  
RT #COMPUTER PROGRAMS  
INSTRUCTIONS  
USE #EDUCATION  
INSTRUCTORS  
0502 3403 3405  
BT #PERSONNEL  
RT #EDUCATION  
#LEARNING  
SCHOOLS  
STUDENTS  
UNIVERSITIES  
INSTRUMENT APPROACH  
0502 1101 1402 2101  
BT APPROACH  
RT AIRCRAFT APPROACH SPACING  
#AIRCRAFT INSTRUMENTS  
APPROACH CONTROL  
APPROACH INDICATORS  
BLIND LANDING  
#FLIGHT CONTROL  
#FLIGHT INSTRUMENTS  
GLIDE PATHS  
INSTRUMENT FLIGHT RULES  
INSTRUMENT LANDING SYSTEMS  
#LANDING AIDS  
LANDING RADAR  
INSTRUMENT COMPENSATION  
1402 1406 1408 1410  
NT TEMPERATURE COMPENSATION  
RT CALIBRATING  
COMPENSATION  
ERROR CORRECTING DEVICES  
INSTRUMENT ERRORS  
INSTRUMENT DRIFT  
USE DRIFT (INSTRUMENTATION)  
INSTRUMENT ERRORS  
1402 1410  
BT ERRORS  
RT BIAS  
CALIBRATING  
DRIFT (INSTRUMENTATION)  
INSTRUMENT COMPENSATION  
LINEARITY  
OPTICAL CORRECTION PROCEDURE  
INSTRUMENT FLIGHT RULES  
0203 0502 1101 1402 2101  
UP IPR (RULES)  
BT FLIGHT RULES  
#RULES  
RT AIR NAVIGATION  
AIR TRAFFIC CONTROL  
APPROACH CONTROL  
BEACONS  
BLIND LANDING  
FLIGHT CONDITIONS  
#FLIGHT INSTRUMENTS  
FLIGHT PLANS  
INSTRUMENT APPROACH  
INSTRUMENT LANDING SYSTEMS  
#LANDING  
LOW VISIBILITY  
INSTRUMENT LANDING SYSTEMS  
0203 0506 1402 1410 2101  
UP ILS (LANDING SYSTEMS)  
NT AUTOMATIC LANDING CONTROL  
BT #LANDING AIDS  
RT AIR TRAFFIC CONTROL  
AIRCRAFT GUIDANCE  
#AIRCRAFT INSTRUMENTS  
AIRCRAFT LANDING  
AIRPORTS  
APPROACH CONTROL  
APPROACH INDICATORS  
BLIND LANDING  
#DISPLAY DEVICES  
#FLIGHT CONTROL  
#FLIGHT INSTRUMENTS  
GLIDE PATHS  
#GROUND BASED CONTROL  
INSTRUMENT APPROACH  
INSTRUMENT FLIGHT RULES  
INSTRUMENTS  
#LANDING  
LANDING INSTRUMENTS  
#RADAR  
RADAR APPROACH CONTROL  
RADIO ALTIMETERS  
RADIO BEACONS  
#TRACKING (POSITION)

INSTRUMENT ORIENTATION  
1402 1410 2102 2104  
RT ALIGNMENT  
ATTITUDE (INCLINATION)  
BEARING (DIRECTION)  
DIRECTIVITY  
ORIENTATION  
POSITIONING  
INSTRUMENT PACKAGES  
0506 1402 1410 2002 2104  
NT APOLLO LUNAR SURFACE EXPERIMENTS  
PACKAGE  
EASEP  
RT LOCAL SCIENTIFIC SURVEY MODULE  
#MODULES  
PAYLOADS  
#SPACECRAFT INSTRUMENTS  
WEATHER STATIONS  
INSTRUMENT RECEIVERS  
0701 1413  
RT #CONTROLLERS  
DETECTORS  
#DISPLAY DEVICES  
INDICATING INSTRUMENTS  
INSTRUMENT TRANSMITTERS  
INSTRUMENTS  
ISOTROPIC TURBULENCE  
#MEASURING INSTRUMENTS  
RECEIVERS  
#RECORDING INSTRUMENTS  
#TRANSDUCERS  
INSTRUMENT TRANSFORMERS  
0902 0904 1406  
BT TRANSFORMERS  
INSTRUMENT TRANSMITTERS  
0701 1413  
BT #TRANSMITTERS  
RT #CONTROLLERS  
INSTRUMENT RECEIVERS  
INSTRUMENTS  
#MEASURING INSTRUMENTS  
#RECORDING INSTRUMENTS  
#TRANSDUCERS  
INSTRUMENTAL ANALYSIS  
USE ANALYZING  
AUTOMATION  
INSTRUMENTATION  
USE INSTRUMENTS  
INSTRUMENTS  
0501 1406  
(USE OF A MORE SPECIFIC TERM I.  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP INSTRUMENTATION  
RT ACTUATORS  
#AIRCRAFT INSTRUMENTS  
APOLLO LUNAR SURFACE EXPERIMENTS  
PACKAGE  
#AUTOMATIC CONTROL  
BIOINSTRUMENTATION  
#CONTROLLERS  
#DISPLAY DEVICES  
EASEP  
#FLIGHT INSTRUMENTS  
INDICATING INSTRUMENTS  
INSTRUMENT LANDING SYSTEMS  
INSTRUMENT RECEIVERS  
INSTRUMENT TRANSMITTERS  
LASER ALTIMETERS  
#MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
MICROWAVE SENSORS  
MONITORS  
NAVIGATION INSTRUMENTS  
OCULOMETERS  
PACKAGES  
PROPELLANT ACTUATED INSTRUMENTS  
#RECORDING INSTRUMENTS  
REMOTE CONTROL  
ROCKET-BORNE INSTRUMENTS  
SATELLITE INSTRUMENTS  
SCATTEROMETERS  
#SPACECRAFT INSTRUMENTS  
SURGICAL INSTRUMENTS  
#TRANSDUCERS  
#TRANSMITTERS  
TURBINE INSTRUMENTS  
INSULATED STRUCTURES  
0201 0504 3109 3110 3303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

# #INTAKE SYSTEMS

RT DIELECTRICS  
ELECTRICAL INSULATION  
HEAT RADIATORS  
HEAT SHIELDING  
#HYPERSONIC VEHICLES  
INSULATION  
RADIATION SHIELDING  
REENTRY SHIELDING  
#REENTRY VEHICLES  
SPACECRAFT SHIELDING  
INSULATING MATERIALS  
USE INSULATION  
INSULATION  
1704 1805 3305 3407  
(MATERIAL)  
UP INSULATING MATERIALS  
NT ELECTRICAL INSULATION  
MULTILAYER INSULATION  
THERMAL INSULATION  
RT ABSORBERS (MATERIALS)  
ASBESTOS  
CEILING (ARCHITECTURE)  
#COMPOSITE MATERIALS  
CONCRETES  
CONSTRUCTION MATERIALS  
DAMPING  
HONEYCOMB STRUCTURES  
INSULATED STRUCTURES  
INSULATORS  
INTERLAYERS  
ISOLATION  
ISOLATORS  
JACKETS  
LINING PROCESSES  
LININGS  
MICARTA  
OXIDES  
POTTING COMPOUNDS  
#PROTECTION  
SUPPRESSORS  
VERMICULITE  
WATERPROOFING  
INSULATORS  
2302 3304 3305  
(EXCLUDES THERMAL INSULATION--LIMITED  
TO DEVICES COMPOSED OF ELECTRICALLY  
INSULATIVE MATERIALS)  
RT #ATTENUATORS  
DIELECTRICS  
ELECTRIC CONDUCTORS  
ELECTRICAL INSULATION  
INSULATION  
#TRANSMISSION LINES  
INSULIN  
0403 0405 1808  
BT #DRUGS  
ENDOCRINE SECRETIONS  
#SECRETIONS  
RT DIABETES MELLITUS  
#INTAKE SYSTEMS  
1504  
UP INDUCERS  
INDUCTION SYSTEMS  
INLETS (DEVICES)  
NT AIR INTAKES  
CONICAL INLETS  
ENGINE INLETS  
HELICAL INDUCERS  
HYPERSONIC INLETS  
INTERNAL COMPRESSION INLETS  
NOSE INLETS  
SIDE INLETS  
SUPERSONIC INLETS  
RT AERODYNAMIC CONFIGURATIONS  
COOLING SYSTEMS  
DUCTED BODIES  
DUCTS  
ENTRANCES  
EXHAUST SYSTEMS  
FEEDERS  
FUEL SYSTEMS  
INLET FLOW  
INLET NOZZLES  
MANIFOLDS  
#OPENINGS  
PIPE NOZZLES  
PLENUM CHAMBERS  
RAMPS (STRUCTURES)  
SCOOPS  
SYSTEMS  
WATER INTAKES



# INTEGERS

## INTEGERS

1902  
BT #NUMBER THEORY  
REAL NUMBERS  
RT ARITHMETIC  
COMPLEX NUMBERS  
CONGRUENCES  
DIGITS  
NUMBERS  
INTEGRAL CALCULUS  
1902  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
MEASURE AND INTEGRATION  
REAL VARIABLES  
RT AREA  
DIFFERENTIAL CALCULUS  
INTEGRAL EQUATIONS  
INTEGRAL TRANSFORMATIONS  
NUMERICAL INTEGRATION  
OPERATIONAL CALCULUS  
INTEGRAL EQUATIONS  
1902  
UP INTEGRODIFFERENTIAL EQUATIONS  
NT FREDHOLM EQUATIONS  
SINGULAR INTEGRAL EQUATIONS  
VOLTERRA EQUATIONS  
WIENER HOPF EQUATIONS  
BT #ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
RT CALCULUS OF VARIATIONS  
DIFFERENTIAL EQUATIONS  
EQUATIONS  
INTEGRAL CALCULUS  
MELLIN TRANSFORMS  
NONLINEAR EQUATIONS  
PERCUS METHOD  
#RANGE (EXTREMES)  
SCHMIDT METHOD  
TRANSPORT THEORY  
INTEGRAL FUNCTIONS  
USE ENTIRE FUNCTIONS  
INTEGRAL TRANSFORMATIONS  
1902  
UP TRANSFORM INTEGRALS  
NT CONVOLUTION INTEGRALS  
FOURIER TRANSFORMATION  
HILBERT TRANSFORMATION  
LAPLACE TRANSFORMATION  
BT #ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
RT INTEGRAL CALCULUS  
LIGHTHILL METHOD  
OPERATORS (MATHEMATICS)  
INTEGRATED CIRCUITS  
0902 1001 1002  
UP MONOLITHIC CIRCUITS  
NT LARGE SCALE INTEGRATION  
BT #CIRCUITS  
RT ELECTRONIC PACKAGING  
MEDIUM SCALE INTEGRATION  
MICROMINIATURIZATION  
MOLECULAR ELECTRONICS  
PRINTED CIRCUITS  
THICK FILMS  
THIN FILMS  
TRANSISTOR CIRCUITS  
INTEGRATED MANEUVERING & LIFE SUPPORT SYS  
USE IMSS  
INTEGRATED MISSION CONTROL CENTER  
1102 1104 1109 2102 3409  
UP IMCC (CONTROL CENTER)  
BT GROUND STATIONS  
#STATIONS  
RT GEMINI PROJECT  
#GROUND BASED CONTROL  
REAL TIME OPERATION  
INTEGRATION (REAL VARIABLES)  
USE MEASURE AND INTEGRATION  
INTEGRATORS  
0801 1902  
NT DIGITAL INTEGRATORS  
RT #CIRCUITS  
DIFFERENTIATORS  
NETWORKS  
SOLUTIONS  
INTEGRITY  
0408 1902 3408  
RT COMPLETENESS  
SECURITY  
VULNERABILITY

INTEGRODIFFERENTIAL EQUATIONS  
USE DIFFERENTIAL EQUATIONS  
INTEGRAL EQUATIONS  
INTELLECT  
0408 0410  
BT INTELLIGENCE  
RT ARTIFICIAL INTELLIGENCE  
MENTAL PERFORMANCE  
#PSYCHOLOGY  
INTELLIGENCE  
0408 0410 3401  
NT ARTIFICIAL INTELLIGENCE  
INTELLECT  
RT #DETECTION  
MENTAL HEALTH  
MENTAL PERFORMANCE  
MILITARY TECHNOLOGY  
RECONNAISSANCE  
SURVEILLANCE  
INTELLIGIBILITY  
0703 3405  
NT SPEECH RECOGNITION  
RT AMBIGUITY  
COHERENCE  
#COMMUNICATION THEORY  
INTERPRETATION  
MESSAGES  
ORTHOGRAPHY  
PHONEMICS  
PHONETICS  
SCRAMBLING (COMMUNICATION)  
INTELSAT SATELLITES  
3107  
BT ARTIFICIAL SATELLITES  
COMMUNICATION SATELLITES  
EARTH SATELLITES  
#SATELLITES  
INTENSIFICATION  
USE AMPLIFICATION  
INTENSIFIER TUBES  
USE IMAGE INTENSIFIERS  
#INTENSIFIERS  
0605 1407  
NT IMAGE INTENSIFIERS  
IMAGE ORTHICONS  
RT #AMPLIFIERS  
INTENSITY  
2311 2402 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP HIGH INTENSITY  
RT AMPLITUDES  
BRIGHTNESS  
FLUX (RATE)  
FLUX DENSITY  
#LEVEL (QUANTITY)  
LOUDNESS  
LUMINANCE  
LUMINOUS INTENSITY  
MAGNITUDE  
NOISE INTENSITY  
RADIANCE  
INTERACTIONS  
3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ELECTROMAGNETIC INTERACTIONS  
#ELEMENTARY PARTICLE INTERACTIONS  
GAS-GAS INTERACTIONS  
GAS-ION INTERACTIONS  
GAS-LIQUID INTERACTIONS  
GAS-METAL INTERACTIONS  
HIGH ENERGY INTERACTIONS  
ION ATOM INTERACTIONS  
MESON-NUCLEON INTERACTIONS  
MOLECULAR COLLISIONS  
MOLECULAR INTERACTIONS  
NUCLEAR CAPTURE  
NUCLEAR INTERACTIONS  
NUCLEON-NUCLEON INTERACTIONS  
#PARTICLE INTERACTIONS  
PARTICLE THEORY  
PHOTON-ELECTRON INTERACTION  
PLASMA-ELECTROMAGNETIC INTERACTION  
PLASMA INTERACTIONS  
PLASMA-PARTICLE INTERACTIONS  
SHOCK WAVE INTERACTION  
SOUND-SOUND INTERACTIONS  
WAVE INTERACTION

# WASA THESAURUS (ALPHABETICAL LISTING)

INTERATOMIC FORCES  
2311 2401 2404 2405  
RT ATOMIC STRUCTURE  
VAN DER WAAL FORCES  
INTERCEPTION  
0702 0705 3401  
RT #RENDEZVOUS  
INTERCEPTOR AIRCRAFT  
USE FIGHTER AIRCRAFT  
INTERCEPTORS  
0207 1902 3401  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT FIGHTER AIRCRAFT  
SATELLITE INTERCEPTORS  
INTERCOM 1000 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
INTERCONNECTION  
USE JOINING  
INTERCONTINENTAL BALLISTIC MISSILES  
3101 3401  
UP ICBM (MISSILES)  
NT ATLAS D ICBM  
ATLAS E ICBM  
ATLAS F ICBM  
ATLAS G ICBM  
ATLAS ICBM  
MINUTEMAN ICBM  
TITAN ICBM  
TITAN 1 ICBM  
TITAN 2 ICBM  
BT BALLISTIC MISSILES  
#MISSILES  
SURFACE TO SURFACE MISSILES  
FLEET BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC  
MISSILES  
MARK 1 REENTRY BODY  
MARK 2 REENTRY BODY  
MARK 3 REENTRY BODY  
MARK 4 REENTRY BODY  
MARK 5 REENTRY BODY  
MARK 6 REENTRY BODY  
MARK 10 REENTRY BODY  
MARK 11 REENTRY BODY  
MARK 12 REENTRY BODY  
MARK 17 REENTRY BODY  
TRANSOCEANIC SYSTEMS  
INTERCRANIAL CIRCULATION  
0404 0405  
BT BLOOD CIRCULATION  
#CIRCULATION  
RT CRANIUM  
SKULL  
INTERFACE STABILITY  
1202 1704 2601 3203  
RT FLUID BOUNDARIES  
GAS-SOLID INTERFACES  
#INTERFACES  
LIQUID-LIQUID INTERFACES  
LIQUID SLOSHING  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES  
TAYLOR INSTABILITY  
ULLAGE  
#INTERFACES  
0201 1202 1802 1902 2311 2806 0702  
1504 3406  
(EXCLUDES COMMUNICATION, MANAGEMENT,  
AND MACHINE INTERFACES)  
NT FLUID BOUNDARIES  
GAS-SOLID INTERFACES  
JET BOUNDARIES  
LIQUID-LIQUID INTERFACES  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES  
SOLID-SOLID INTERFACES  
RT #BOUNDARIES  
COORDINATION  
#DATA PROCESSING EQUIPMENT  
FREE BOUNDARIES  
INTERFACE STABILITY  
MANAGEMENT PLANNING  
PROJECT MANAGEMENT  
#SURFACE PROPERTIES  
SURFACE REACTIONS  
SURFACES  
#TELECOMMUNICATION

# NASA THESAURUS (ALPHABETICAL LISTING)

## INTERFACIAL ENERGY

1704 2601 3203

RT ADHESION  
ELECTRON ENERGY  
ENERGY  
INTERFACIAL TENSION  
LIQUID-LIQUID INTERFACES  
SHEAR STRENGTH  
SURFACE ENERGY

## INTERFACIAL STRAIN

USE INTERFACIAL TENSION

## INTERFACIAL TENSION

1704 2601 3203

UF INTERFACIAL STRAIN  
SURFACE TENSION  
BT #SURFACE PROPERTIES  
RT CAPILLARY WAVES  
GAS-LIQUID INTERACTIONS  
GIBBS ADSORPTION EQUATION  
GLOBULES  
INTERFACIAL ENERGY  
LIQUID-LIQUID INTERFACES  
LIQUID SURFACES  
#MECHANICAL PROPERTIES  
RIPPLES  
SLIDING  
SPREADING  
SURFACE ENERGY  
SURFACE STABILITY  
TENSION  
VAPOR PRESSURE  
WETTING

## INTERFERENCE

0404 0704 0710 2301 2310

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT COHERENCE COEFFICIENT  
CROSSTALK  
DISRUPTING  
ELECTROMAGNETIC COMPATIBILITY  
#ELECTROMAGNETIC INTERFERENCE  
HUM  
INCOMPATIBILITY  
INTERFERENCE FACTOR TABLE  
INTERFERENCE GRATING  
JAMMING  
NONSYNCHRONIZATION  
RADIO FREQUENCY INTERFERENCE  
RAMSAUER EFFECT  
SUPPORT INTERFERENCE  
WAVE DIFFRACTION  
WAVE FRONT DEFORMATION

## INTERFERENCE DRAG

0101 1202 1203

BT #AERODYNAMIC CHARACTERISTICS  
DRAG  
#DYNAMIC CHARACTERISTICS  
PRESSURE DRAG  
WAVE DRAG  
RT INTERFERENCE LIFT  
PROPELLER SLIPSTREAMS  
SUPERSONIC DRAG  
UPWASH

## INTERFERENCE FACTOR TABLE

0710 2402

BT TABLES (DATA)  
RT INTERFERENCE  
#MODULATION  
MULTICHANNEL COMMUNICATION

## INTERFERENCE GRATING

0701 0705 0905

RT GRATINGS  
INTERFERENCE  
MOIRE EFFECTS  
RADIO FILTERS  
RADIO FREQUENCY INTERFERENCE

## INTERFERENCE LIFT

0101 1202 1203

BT #AERODYNAMIC CHARACTERISTICS  
#AERODYNAMIC FORCES  
#DISTRIBUTION (PROPERTY)  
#DYNAMIC CHARACTERISTICS  
LIFT

RT INTERFERENCE DRAG  
UPWASH

## INTERFERENCE MONOCHROMATIZATION

USE DIFFRACTION

MONOCHROMATIZATION

## INTERFEROGRAMS

USE INTERFEROMETRY

## INTERFEROMETERS

1405 1406

RT FABRY-PEROT INTERFEROMETERS  
MACH-ZEHNDER INTERFEROMETERS  
MICHELSON INTERFEROMETERS  
MICROWAVE INTERFEROMETERS  
PHASE SWITCHING INTERFEROMETERS  
RADIO INTERFEROMETERS  
BT #MEASURING INSTRUMENTS

## DIFFRACTOMETERS

FLATNESS  
GONIOMETERS  
INTERFEROMETRY  
#OPTICAL EQUIPMENT  
#OPTICAL MEASUREMENT  
OPTICAL MEASURING INSTRUMENTS  
PHOTOGONIOMETERS

## INTERFEROMETRY

1405 2310

UF INTERFEROGRAMS  
NT DIFFERENTIAL INTERFEROMETRY  
RT DIFFRACTION PATTERNS  
FRESNEL DIFFRACTION  
FRESNEL REFLECTORS  
INTERFEROMETERS  
ISOTHERMALS  
NULL ZONES  
PLASMA FLUX MEASUREMENTS

## INTERFERON

0403 0603

RT BACTERIOPHAGES  
BIOCHEMISTRY  
BIOLOGY  
PHYSIOLOGICAL DEFENSES  
VIRUSES

## INTERGALACTIC MEDIA

3001 3009

BT #MEDIA  
RT COSMIC DUST  
COSMIC GASES  
COSMIC PLASMA  
MASS DISTRIBUTION  
STELLAR WINDS

## INTERGRAVULAR CORROSION

1702 1704 2601

BT CHEMICAL ATTACK  
CORROSION  
RT GRAIN BOUNDARIES  
STRESS CORROSION

## INTERIOR BALLISTICS

1203 2702 3304

BT BALLISTICS  
RT PROPELLANT TESTS

## INTERLAYERS

3203

NT MULTILAYER INSULATION  
RT BARRIER LAYERS  
FABRICS  
INSULATION  
LAMINATES  
LAYERS  
SANDWICH STRUCTURES  
TRANSITION LAYERS

## INTERLOCKING

USE LOCKING

## INTERMEDIATE FREQUENCIES

0702 0705 0710 1002 2402

BT #FREQUENCIES  
RT HIGH FREQUENCIES  
LOW FREQUENCIES  
RADIO FREQUENCIES

## INTERMEDIATE FREQUENCY AMPLIFIERS

0701 0705 0905 2402

BT #AMPLIFIERS  
RT BEAT FREQUENCIES  
CRYSTAL FILTERS  
HETERODYNING  
LOGARITHMIC RECEIVERS  
PREAMPLIFIERS  
RADIO RECEIVERS  
TRANSISTOR AMPLIFIERS

## INTERMEDIATE RANGE BALLISTIC MISSILES

3101 3401

UF IRBM (MISSILES)  
NT BLUE STREAK MISSILE  
JUPITER MISSILE  
POLARIS A1 MISSILE  
POLARIS A2 MISSILE  
POLARIS A2A MISSILE  
POLARIS A3 MISSILE  
POLARIS MISSILES  
BT BALLISTIC MISSILES

# INTERNAL COMBUSTION ENGINES

## #MISSILES

RT SURFACE TO SURFACE MISSILES  
FIELD ARMY BALLISTIC MISSILES  
FLEET BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
MARK 1 REENTRY BODY  
MARK 2 REENTRY BODY  
MARK 3 REENTRY BODY  
SHORT RANGE BALLISTIC MISSILES

## INTERMETALLICS

1701 1704 2602

(COMPOUNDS CONSISTING OF ONLY METALLIC  
ELEMENTS)

RT #ALLOYS  
AMMINES  
ARSENIDES  
BORIDES  
#INORGANIC COMPOUNDS  
METALLOIDS  
#METALS  
PHASE DIAGRAMS  
PHOTOELECTROMAGNETIC EFFECTS  
SEMICONDUCTORS (MATERIALS)  
SILICIDES  
TELLURIDES

## INTERMITTENCY

0605 1407 2310 3407

RT #CYCLES  
INTERMITTENCY HYPOTHESIS  
#PULSES  
RANDOM PROCESSES

## INTERMITTENCY HYPOTHESIS

1407 2306 2310

BT HYPOTHESES  
RT INTERMITTENCY  
PHOTOGRAPHIC RECORDING

## INTERMODULATION

0702 0705 1002

BT #MODULATION  
RT DEMODULATION  
DISCRIMINATORS  
FREQUENCY ANALYZERS  
FREQUENCY MODULATION  
REMULATION  
SOUND-SOUND INTERACTIONS  
WAVE INTERACTION

## INTERMOLECULAR FORCES

0601 0603 2311 2401 2404 2405

BT ENERGY LEVELS  
#LEVEL (QUANTITY)  
MOLECULAR ENERGY LEVELS  
RT MOLECULAR INTERACTIONS  
MOLECULAR STRUCTURE  
VAN DER WAAL FORCES

## INTERNAL COMBUSTION ENGINES

1504 2801 3301

(EXCLUDES ROCKET ENGINES)

NT BRISTOL-SIDDELEY BS 53 ENGINE  
BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
BRISTOL-SIDDELEY VIPER ENGINE  
CF-700 ENGINE  
DIESEL ENGINES  
DUCTED FAN ENGINES  
GAS TURBINE ENGINES  
J-33 ENGINE  
J-34 ENGINE  
J-40 ENGINE  
J-47 ENGINE  
J-52 ENGINE  
J-57 ENGINE  
J-65 ENGINE  
J-71 ENGINE  
J-73 ENGINE  
J-75 ENGINE  
J-79 ENGINE  
J-85 ENGINE  
J-93 ENGINE  
J-97 ENGINE  
J-57-P-20 ENGINE  
J-69-T-25 ENGINE  
JET ENGINES  
LOW VOLUME RAMJET ENGINES  
PTL-6 ENGINE  
PULSEJET ENGINES  
RA-28 ENGINE  
RAMJET ENGINES  
STP-102 ENGINE  
SUPERSONIC COMBUSTION RAMJET  
ENGINES  
T-34 ENGINE  
T-38 ENGINE  
T-53 ENGINE

## INTERNAL COMPRESSION INLETS

T-55 ENGINE  
 T-56 ENGINE  
 T-58 ENGINE  
 T-63 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-76 ENGINE  
 T-78 ENGINE  
 T-58-GZ-8B ENGINE  
 TP-30 ENGINE  
 TP-106 ENGINE  
 TURBOFAN ENGINES  
 TURBOJET ENGINES  
 TURBOPROP ENGINES  
 TURBORAMJET ENGINES  
 WANKEL ENGINES  
 BT #ENGINES  
 RT AFTERBURNING  
 AIRCRAFT ENGINES  
 AUTOMOBILE ENGINES  
 BEARING  
 #BEARINGS  
 BOOSTER ROCKET ENGINES  
 CABS  
 CARBURETORS  
 COMBUSTION  
 COMBUSTION CHAMBERS  
 DISTRIBUTORS  
 DUCTED ROCKET ENGINES  
 ENGINE PARTS  
 ENGINE PRIMERS  
 ENGINE STARTERS  
 EXHAUST SYSTEMS  
 EXTERNAL COMBUSTION ENGINES  
 FUEL CONSUMPTION  
 FUEL INJECTION  
 FUEL PUMPS  
 FUEL SYSTEMS  
 GAS TURBINES  
 HYBRID PROPELLANT ROCKET ENGINES  
 IGNITION SYSTEMS  
 LIQUID PROPELLANT ROCKET ENGINES  
 LUBRICATION SYSTEMS  
 PISTON ENGINES  
 PISTONS  
 RETROCKET ENGINES  
 ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 SPARK PLUGS  
 SUPERCHARGERS  
 SUSTAINER ROCKET ENGINES  
 THERMODYNAMIC CYCLES  
 THERMODYNAMIC EFFICIENCY  
 TORPEDO ENGINES  
 VERNIER ENGINES  
 INTERNAL COMPRESSION INLETS  
 1504 2801  
 BT #INTAKE SYSTEMS  
 RT AIR INTAKES  
 COMPRESSING  
 ENGINE INLETS  
 INLET NOZZLES  
 SUPERSONIC INLETS  
 INTERNAL CONVERSION  
 0301  
 RT CONVERSION  
 #NUCLEAR REACTIONS  
 INTERNAL ENERGY  
 1202 2308 2311 3304  
 RT CHEMICAL ENERGY  
 ENERGY  
 FREE ENERGY  
 GIBBS-HELMHOLTZ EQUATIONS  
 KINETIC ENERGY  
 LEVEL  
 MOLECULAR ENERGY LEVELS  
 #PARTICLE ENERGY  
 #POTENTIAL ENERGY  
 THERMAL ENERGY  
 THERMODYNAMICS  
 INTERNAL FRICTION  
 1503 1704 2601  
 BT #FRICTION  
 RT ANELASTICITY  
 #ATTENUATION  
 COHESION  
 DAMPING  
 DENSITY (MASS/VOLUME)  
 EDDY VISCOSITY  
 HYSTERESIS  
 #MECHANICAL PROPERTIES  
 PHYSICAL PROPERTIES

PLASTIC FLOW  
 VISCOSITY  
 INTERNAL PRESSURE  
 1202 1203 3203  
 (PRESSURE INSIDE A PORTION OF MATTER)  
 DUE TO ATTRACTION BETWEEN MOLECULES)  
 BT #PRESSURE  
 RT ADHESION  
 COHESION  
 GAS PRESSURE  
 PARTIAL PRESSURE  
 PRESSURE DISTRIBUTION  
 SPREADING  
 TEMPERATURE INVERSIONS  
 INTERNAL STRESS  
 USE RESIDUAL STRESS  
 INTERNATIONAL COOPERATION  
 3403 3409  
 BT #FOREIGN POLICY  
 INTERNATIONAL RELATIONS  
 RT A-300 AIRCRAFT  
 AZUR SATELLITE  
 CONVENTIONS  
 COOPERATION  
 DISARMAMENT  
 ESRO SATELLITES  
 FEDERATIONS  
 FRENCH SPACE PROGRAMS  
 INTERNATIONAL GEOPHYSICAL YEAR  
 INTERNATIONAL LAW  
 INTERNATIONAL LAW  
 NORTH ATLANTIC TREATY ORGANIZATION  
 (NATO)  
 PEACETIME  
 POLITICS  
 SOVEREIGNTY  
 U.S.S.R. SPACE PROGRAM  
 UNITED NATIONS  
 INTERNATIONAL GEOPHYSICAL YEAR  
 1308 3404 3409  
 UP IGY (GEOPHYSICAL YEAR)  
 RT GEOPHYSICS  
 INTERNATIONAL COOPERATION  
 VANGUARD SATELLITES  
 WORLD DATA CENTERS  
 INTERNATIONAL LAW  
 3403  
 RT SPACE LAW  
 BT #LAW (JURISPRUDENCE)  
 RT CONVENTIONS  
 INTERNATIONAL COOPERATION  
 LEGAL LIABILITY  
 NATIONS  
 PEACETIME  
 POLITICS  
 SOVEREIGNTY  
 UNITED NATIONS  
 WARFARE  
 INTERNATIONAL PRACTICAL TEMPERATURE  
 USE TEMPERATURE SCALES  
 INTERNATIONAL QUIET SUN YEAR  
 3001 3009 3409  
 UP IQSY (INTERNATIONAL YEAR)  
 RT SOLAR ACTIVITY  
 SOLAR CYCLES  
 SOLAR PHYSICS  
 INTERNATIONAL RELATIONS  
 3401 3402 3403 3406 3409  
 BT INTERNATIONAL COOPERATION  
 BT #FOREIGN POLICY  
 RT U.S.S.R. SPACE PROGRAM  
 INTERNATIONAL SATS FOR IONOSPHERIC STUDY  
 USE ISIS SATELLITES  
 INTERNATIONAL SYSTEM OF UNITS  
 1406 2311  
 UP SI  
 BT UNITS OF MEASUREMENT  
 RT CONVERSION TABLES  
 MEASUREMENT  
 #MEASURING INSTRUMENTS  
 METROLOGY  
 INTERNATIONAL TRADE  
 3402  
 UP EXPORTS  
 RT ECONOMICS  
 REVENUE  
 INTERNUCLEAR PROPERTIES  
 0406 2405 3408  
 RT MOLECULAR PHYSICS  
 INTERPHONES  
 0701 0702 0904  
 BT #COMMUNICATION EQUIPMENT  
 RT EARPHONES

## NASA THESAURUS (ALPHABETICAL LISTING)

MICROPHONES  
 #TELECOMMUNICATION  
 INTERPLANETARY COMMUNICATION  
 0702 0707 0708 3007  
 BT SPACE COMMUNICATION  
 RT #TELECOMMUNICATION  
 CIRCULUNAR COMMUNICATION  
 PAXSIMILE COMMUNICATION  
 LASERS  
 LUNAR COMMUNICATION  
 OPTICAL COMMUNICATION  
 RADIO COMMUNICATION  
 SPACECRAFT COMMUNICATION  
 INTERPLANETARY DUST  
 3003 3005 3009  
 NT METEOROID DUST CLOUDS  
 ZODIACAL DUST  
 BT COSMIC DUST  
 #DUST  
 INTERPLANETARY MEDIUM  
 #MEDIA  
 RT INTERPLANETARY GAS  
 METEORIDS  
 MICROMETEORIDS  
 INTERPLANETARY EXPLORER  
 USE EXPLORER 18 SATELLITE  
 INTERPLANETARY FLIGHT  
 3007 3009 3409  
 UP PLANETARY SPACE FLIGHT  
 NT GRAND TOURS  
 BT #SPACE FLIGHT  
 RT ASTRODYNAMICS  
 EARTH-VENUS TRAJECTORIES  
 FLYBY MISSIONS  
 #INTERPLANETARY SPACECRAFT  
 INTERPLANETARY TRAJECTORIES  
 INTERPLANETARY TRANSFER ORBITS  
 MANNED SPACE FLIGHT  
 #ORBITS  
 OUTER PLANETS EXPLORERS  
 PLANETARY LANDING  
 RETURN TO EARTH SPACE FLIGHT  
 ROUND TRIP TRAJECTORIES  
 SPACE EXPLORATION  
 SPACE NAVIGATION  
 SPACECRAFT GUIDANCE  
 TOPS (SPACECRAFT)  
 INTERPLANETARY GAS  
 1203 3005 3009  
 BT COSMIC GASES  
 #EXTRATERRESTRIAL MATTER  
 #GASES  
 INTERPLANETARY MEDIUM  
 #MEDIA  
 RT RAREFIED GASES  
 COSMIC PLASMA  
 INTERPLANETARY DUST  
 INTERPLANETARY MAGNETIC FIELDS  
 INTERSTELLAR GAS  
 SOLAR WIND  
 INTERPLANETARY MAGNETIC FIELDS  
 2307 2402 3003 3009  
 BT #MAGNETIC FIELDS  
 RT INTERPLANETARY GAS  
 SOLAR MAGNETIC FIELD  
 INTERPLANETARY MEDIUM  
 3008 3009  
 NT INTERPLANETARY DUST  
 INTERPLANETARY GAS  
 METEOROID DUST CLOUDS  
 ZODIACAL DUST  
 BT #MEDIA  
 RT MASS DISTRIBUTION  
 METEORIDS  
 PLASMA CLOUDS  
 SOLAR WIND  
 INTERPLANETARY MONITORING PLATFORM  
 USE IMP  
 INTERPLANETARY NAVIGATION  
 2102 2103 3007  
 BT #NAVIGATION  
 SPACE NAVIGATION  
 RT ASTRONAVIGATION  
 CELESTIAL NAVIGATION  
 CELESTIAL REFERENCE SYSTEMS  
 INTERPLANETARY TRANSFER ORBITS  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 INTERPLANETARY PROPULSION  
 USE #INTERPLANETARY SPACECRAFT  
 ROCKET ENGINES

# NASA THESAURUS (ALPHABETICAL LISTING)

**INTERPLANETARY SPACE**  
 3002 3009  
 UF TRANSLUNAR SPACE  
 BT AEROSPACE ENVIRONMENTS  
 DEEP SPACE  
 #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 RT CISLUNAR SPACE  
 INTERSTELLAR SPACE  
 #INTERPLANETARY SPACECRAFT  
 3007 3110  
 UF INTERPLANETARY PROPULSION  
 PLANETARY SPACECRAFT  
 RT EXPLORER 18 SATELLITE  
 JUPITER PROBES  
 MARINER R 1 SPACE PROBE  
 MARINER R 2 SPACE PROBE  
 MARINER 1 SPACE PROBE  
 MARINER 2 SPACE PROBE  
 MARINER 3 SPACE PROBE  
 MARINER 4 SPACE PROBE  
 MARINER 5 SPACE PROBE  
 MARINER 11 SPACE PROBE  
 MARINER SPACE PROBES  
 MARINER VENUS-MERCURY 1973  
 MARINER VENUS 67 SPACECRAFT  
 MARS PROBES  
 MARS 1 SPACECRAFT  
 PIONEER 1 SPACE PROBE  
 PIONEER 2 SPACE PROBE  
 PIONEER 3 SPACE PROBE  
 PIONEER 4 SPACE PROBE  
 PIONEER 5 SPACE PROBE  
 PIONEER 6 SPACE PROBE  
 PIONEER 7 SPACE PROBE  
 PIONEER 8 SPACE PROBE  
 PIONEER 9 SPACE PROBE  
 PIONEER SPACE PROBES  
 TOPS (SPACECRAFT)  
 VENERA 2 SATELLITE  
 VENERA 3 SATELLITE  
 VENERA SATELLITES  
 VENUS PROBES  
 VIKING LANDER SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
 ZOND 1 SPACE PROBE  
 ZOND 2 SPACE PROBE  
 ZOND 3 SPACE PROBE  
 ZOND 4 SPACE PROBE  
 ZOND 5 SPACE PROBE  
 ZOND 6 SPACE PROBE  
 ZOND 7 SPACE PROBE  
 ZOND SPACE PROBES  
 RT ARTIFICIAL SATELLITES  
 INTERPLANETARY FLIGHT  
 LANDING MODULES  
 #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 RENDEZVOUS SPACECRAFT  
 REUSABLE SPACECRAFT  
 #SATELLITES  
 #SPACE CAPSULES  
 SPACE EXPLORATION  
 SPACE PROBES  
 SPACECRAFT  
 #UNMANNED SPACECRAFT  
**INTERPLANETARY TRAJECTORIES**  
 1904 3006 3007  
 RT EARTH-MERCURY TRAJECTORIES  
 BT SPACECRAFT TRAJECTORIES  
 #TRAJECTORIES  
 RT EARTH-MOON TRAJECTORIES  
 EARTH-VENUS TRAJECTORIES  
 INTERPLANETARY FLIGHT  
 INTERPLANETARY TRANSFER ORBITS  
 ORBITAL LAUNCHING  
 ORBITAL MECHANICS  
 PARKING ORBITS  
 PLANETARY ORBITS  
 RENDEZVOUS TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 SOLAR ORBITS  
 SPACE NAVIGATION  
 SPACECRAFT GUIDANCE  
 TRANSFER ORBITS  
 VIKING LANDER SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
**INTERPLANETARY TRANSFER ORBITS**  
 1904 3006 3007  
 BT ELLIPTICAL ORBITS  
 #ORBITS  
 SPACECRAFT ORBITS

TRANSFER ORBITS  
 RT INTERPLANETARY FLIGHT  
 INTERPLANETARY NAVIGATION  
 INTERPLANETARY TRAJECTORIES  
 ORBITAL MECHANICS  
 SWINGBY TECHNIQUE  
**INTERPOLATION**  
 0802 1902 1905  
 BT NUMERICAL ANALYSIS  
 RT COMMUTATION  
 #COMPUTATION  
 EXTRAPOLATION  
 FINITE DIFFERENCE THEORY  
 #STATISTICAL ANALYSIS  
**INTERPOLATORS**  
 USE REPEATERS  
**INTERPRETATION**  
 0702 0703 0802 1407 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DECODING  
 INTELLIGIBILITY  
 #PERCEPTION  
 PHOTOINTERPRETATION  
 READING  
 #RECOGNITION  
 SYNTAX  
 TRANSLATING  
**INTERRELATIONSHIPS**  
 USE RELATIONSHIPS  
**INTERROGATION**  
 0702 0705  
 RT #DATA PROCESSING  
 SECONDARY RADAR  
 TRANSMITTER RECEIVERS  
 TRANSPONDERS  
**INTERRUPTION**  
 0705 0710  
 RT ELECTRIC RELAYS  
**INTERSECTIONS**  
 1902  
 (EXCLUDES BOOLEAN LOGICAL PRODUCTS)  
 RT CROSSINGS  
 CROSSEOVERS  
 HIGHWAYS  
 JUNCTIONS  
 RAMPS (STRUCTURES)  
 ROADS  
 STREETS  
**INTERSERVICE DATA EXCHANGE PROGRAM**  
 3401 3404 3405  
 UF IDEP (DATA EXCHANGE)  
 RT DATA RETRIEVAL  
 DATA STORAGE  
 INFORMATION RETRIEVAL  
 LIBRARIES  
 MILITARY TECHNOLOGY  
 #RESEARCH  
**INTERSTELLAR COMMUNICATION**  
 0702 0707  
 BT #COMMUNICATING  
 RT RADIO COMMUNICATION  
 SPACE COMMUNICATION  
**INTERSTELLAR EXTINCTION**  
 2306 2310 2402 2903 3001  
 BT EXTINCTION  
 RT ASTROPHYSICS  
 #EVOLUTION (DEVELOPMENT)  
 INTERSTELLAR GAS  
 INTERSTELLAR SPACE  
 #RADIATION ABSORPTION  
 STELLAR EVOLUTION  
 STELLAR RADIATION  
**INTERSTELLAR GAS**  
 1203 3003 3005 3009  
 BT COSMIC GASES  
 #EXTRATERRESTRIAL MATTER  
 #GASES  
 RAREFIED GASES  
 RT INTERPLANETARY GAS  
 INTERSTELLAR EXTINCTION  
 INTERSTELLAR MAGNETIC FIELDS  
 INTERSTELLAR RADIATION  
 STELLAR WINDS  
**INTERSTELLAR MAGNETIC FIELDS**  
 2307 2402 3003 3009  
 UF GALACTIC MAGNETIC FIELDS  
 BT #MAGNETIC FIELDS  
 RT INTERSTELLAR GAS  
 INTERSTELLAR RADIATION  
 INTERSTELLAR SPACE

# INTRACRANIAL CAVITY

STELLAR MAGNETIC FIELDS  
**INTERSTELLAR MATTER**  
 0603 3001 3009  
 RT #CELESTIAL BODIES  
 COSMIC DUST  
 MASS DISTRIBUTION  
 NEBULAE  
**INTERSTELLAR MICROWAVE SPECTRA**  
 USE INTERSTELLAR RADIATION  
 MICROWAVE SPECTRA  
**INTERSTELLAR RADIATION**  
 2306 2402 2901 2903  
 UF INTERSTELLAR MICROWAVE SPECTRA  
 BT #EXTRATERRESTRIAL RADIATION  
 RT CORPUSCULAR RADIATION  
 COSMIC NOISE  
 COSMIC RAYS  
 #ELECTROMAGNETIC RADIATION  
 GALACTIC RADIATION  
 INTERSTELLAR GAS  
 INTERSTELLAR MAGNETIC FIELDS  
 RADIATIVE TRANSFER  
 STELLAR RADIATION  
**INTERSTELLAR SPACE**  
 3001 3009  
 BT AEROSPACE ENVIRONMENTS  
 DEEP SPACE  
 #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 RT INTERPLANETARY SPACE  
 INTERSTELLAR EXTINCTION  
 INTERSTELLAR MAGNETIC FIELDS  
**INTERSTELLAR TRAVEL**  
 3009 3409  
 RT #SPACE FLIGHT  
 ASTRONAVIGATION  
 CELESTIAL REFERENCE SYSTEMS  
 MANNED SPACE FLIGHT  
**INTERSTICES**  
 1704 2403 2601  
 RT CAVITIES  
 CRACKS  
 GRAIN BOUNDARIES  
 PERCOLATION  
 PERMEABILITY  
 PINHOLES  
 POROSITY  
 POROUS MATERIALS  
 VOIDS  
**INTERSTITIALS**  
 0404 2601 3203  
 RT #ADDITIVES  
 CRYSTAL DEFECTS  
 CRYSTAL STRUCTURE  
 GRAIN BOUNDARIES  
**INTERVALS**  
 1902 2311  
 RT ALTERNATIONS  
 CONSECUTIVE EVENTS  
 SPACING  
 STEP FUNCTIONS  
 #TIME  
 TOPOLOGY  
**INTERVERTEBRAL DISKS**  
 0404 0405  
 BT DISKS (SHAPES)  
 RT DISKS  
 MUSCULOSKELETAL SYSTEM  
 VERTEBRAE  
**INTESTINES**  
 0404  
 RT RECTUM  
 BT #DIGESTIVE SYSTEM  
 GASTROINTESTINAL SYSTEM  
 #VISCERA  
 RT ABDOMEN  
 APPENDIX (ANATOMY)  
 COLIC  
**INTOXICATION**  
 0405 0408 0412  
 RT POISONING  
 TOXICITY AND SAFETY HAZARD  
 TOXICOLOGY  
**INTRACRANIAL CAVITY**  
 0404 0405  
 BT #ANATOMY  
 BONES  
 CRANIUM  
 HEAD (ANATOMY)  
 MUSCULOSKELETAL SYSTEM  
 SKULL

# INTRACRANIAL PRESSURE

INTRACRANIAL PRESSURE  
0405 0408  
BT #PRESSURE  
RT BRAIN  
INTRAMOLECULAR STRUCTURES  
0603 2401 2404  
RT MOLECULAR STRUCTURE  
STRUCTURES  
INTRAOCULAR PRESSURE  
0401 0404 0408  
UF TONOMETRY  
BT #PRESSURE  
RT GLAUCOMA  
INTRAVASCULAR SYSTEM  
0404  
BT BLOOD CIRCULATION  
#CIRCULATION  
INTRAVERTEBRAL ACTIVITY  
0401 0408 0502 0504 0506 3009  
RT ACTIVITY  
ASTRONAUT MANEUVERING EQUIPMENT  
ASTRONAUT PERFORMANCE  
EXTRAVERTEBRAL ACTIVITY  
#HUMAN PERFORMANCE  
MANNED SPACE FLIGHT  
PILOT PERFORMANCE  
SPACECRAFT ENVIRONMENTS  
WEIGHTLESSNESS  
INTRAVENOUS PROCEDURES  
0401 0405  
RT CATHETERIZATION  
INTROVERSION  
0408 0410  
RT DEPRESSION  
DETACHMENT  
HUMAN BEHAVIOR  
INHIBITION  
#PSYCHOLOGY  
INTRUDER AIRCRAFT  
USE A-6 AIRCRAFT  
INTRUSION  
1504 3407  
RT CONTAMINATION  
EXTRUDING  
LEAKAGE  
SEEPAGE  
INVADER AIRCRAFT  
USE B-26 AIRCRAFT  
INVALIDITY  
USE ERRORS  
INVARIANCE  
1902  
NT GAUGE INVARIANCE  
RT CONSTANT  
LORENTZ TRANSFORMATIONS  
INVARIANT IMBEDDINGS  
1203 1902  
BT #GEOMETRY  
IMBEDDINGS (MATHEMATICS)  
TOPOLOGY  
RT ANISOTROPIC FLUIDS  
CALCULUS OF VARIATIONS  
CONFORMAL MAPPING  
COORDINATE TRANSFORMATIONS  
DIFFERENTIAL GEOMETRY  
IMBEDDINGS  
ISOTROPIC TURBULENCE  
INVENTIONS  
3404  
RT PATENT APPLICATIONS  
PATENT POLICY  
PATENTS  
PRODUCT DEVELOPMENT  
INVENTORIES  
3402 3406  
NT TIMBER INVENTORY  
RT RESERVES  
STORAGE  
INVENTORY CONTROLS  
3402 3406  
BT INVENTORY MANAGEMENT  
BT CONTROL  
DISTRIBUTING  
#MANAGEMENT  
MATHEMATICAL MODELS  
OPTIMAL CONTROL  
RESERVES  
RISK  
STORAGE  
TIME LAG  
INVENTORY MANAGEMENT  
1502 3401 3404 3406

BT INVENTORY CONTROLS  
BT INDUSTRIAL MANAGEMENT  
LOGISTICS MANAGEMENT  
#MANAGEMENT  
RT DOWNTIME  
LOGISTICS  
PROCUREMENT MANAGEMENT  
#RESOURCES  
SERVICES  
SPARE PARTS  
STOCKPILING  
STORAGE  
#INVERSIONS  
0503 1902 3203  
NT CENTRIFUGING STRESS  
POPULATION INVERSION  
TEMPERATURE INVERSIONS  
INVERTEBRATES  
0402 0404  
NT AMOEBA  
ARTEMIA  
ARTHROPODS  
BEES  
BEETLES  
CEPHALOPODS  
CHIRONOMUS FLIES  
COCKROACHES  
COLEOPTERA  
COLPIDIA  
CRABS  
CRICKETS  
DROSOPHILA  
FLAGELLATA  
FLATWORMS  
GRASSHOPPERS  
INSECTS  
MICROSPORES  
MOLLUSKS  
MOTHS  
OCTOPUSES  
PARAMECIA  
PELOMYXA  
PROTOZOA  
ROTIFERA  
SEA URCHINS  
SILKWORMS  
SNAILS  
SPIDERS  
SPORES  
TRIBOLIA  
TRYPAZONE  
WORMS  
BT #ANIMALS  
RT BACTERIA  
HEMOCYTES  
#MICROORGANISMS  
INVERTERS  
0801 0902 0904  
(EXCLUDES AC TO DC INVERTERS)  
NT STATIC INVERTERS  
RT #ATTENUATORS  
#OSCILLATORS  
#INVESTIGATION  
3406 3407 3409  
UP STUDIES  
NT ACCIDENT INVESTIGATION  
AIRCRAFT ACCIDENT INVESTIGATION  
RT EXAMINATION  
EXPERIMENTATION  
#EXPLORATION  
#PROGRAMS  
#RESEARCH  
RESEARCH AND DEVELOPMENT  
SAMPLING  
UNIVERSITY PROGRAM  
INVESTMENT  
1504 1507 1704 3402 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COMMERCE  
INVESTMENT CASTING  
INVESTMENTS  
INVESTMENT CASTING  
1701 1704  
UP LOST WAX PROCESS  
BT CASTING  
#FORMING TECHNIQUES  
RT CENTRIFUGAL CASTING  
INVESTMENT  
INVESTMENTS  
3402

# NASA THESAURUS (ALPHABETICAL LISTING)

RT DEPRECIATION  
ECONOMICS  
FINANCE  
INVESTMENT  
INVISCID FLOW  
1202 1203  
NT STAGNATION FLOW  
BT #FLUID FLOW  
RT AERODYNAMICS  
CROCCO-LEE THEORY  
CROCCO METHOD  
FLOW CHARACTERISTICS  
GAS FLOW  
LAMINAR FLOW  
POTENTIAL FLOW  
PRANDTL NUMBER  
REYNOLDS NUMBER  
STAGNATION TEMPERATURE  
TURBULENT FLOW  
VISCOUS FLOW  
INVISIBILITY  
USE VISIBILITY  
INVOLUNTARINESS  
USE INVOLUNTARY ACTIONS  
INVOLUNTARY ACTIONS  
0404 0503  
UP INVOLUNTARINESS  
RT AUTONOMIC NERVOUS SYSTEM  
IODATES  
0603 1804  
BT #HALOGEN COMPOUNDS  
IODINE COMPOUNDS  
IODIDES  
0603 1804 1808  
NT CESIUM IODIDES  
GALLAMINE TRIETHIODIDE  
HAFNIUM IODIDES  
NIOBIMUM IODIDES  
POTASSIUM IODIDES  
SILVER IODIDES  
SODIUM IODIDES  
ZIRCONIUM IODIDES  
BT #HALOGEN COMPOUNDS  
IODINE COMPOUNDS  
IODIMETRY  
0601  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT QUANTITATIVE ANALYSIS  
REDUCTION  
TITRATION  
IODINE  
0603 1807  
NT IODINE ISOTOPES  
IODINE 125  
IODINE 131  
IODINE 132  
BT #CHEMICAL ELEMENTS  
IODINE COMPOUNDS  
0603 1804  
NT CESIUM IODIDES  
GALLAMINE TRIETHIODIDE  
HAFNIUM IODIDES  
IODATES  
IODIDES  
IODOACETIC ACID  
NIOBIMUM IODIDES  
POTASSIUM IODIDES  
SILVER IODIDES  
SODIUM IODIDES  
ZIRCONIUM IODIDES  
BT #HALOGEN COMPOUNDS  
IODINE ISOTOPES  
0603 1807 2406  
NT IODINE 125  
IODINE 131  
IODINE 132  
BT #CHEMICAL ELEMENTS  
IODINE  
ISOTOPES  
NUCLIDES  
IODINE 125  
0603 1807 2406  
BT #CHEMICAL ELEMENTS  
IODINE  
IODINE ISOTOPES  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
IODINE 131  
0603 1807 2406  
BT #CHEMICAL ELEMENTS

NASA THESAURUS (ALPHABETICAL LISTING)

IODINE  
IODINE ISOTOPES  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
IODINE 132  
0603 1807 2406  
BT #CHEMICAL ELEMENTS  
IODINE  
IODINE ISOTOPES  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
IODOACETIC ACID  
0403 1808  
BT ACETIC ACID  
#ACIDS  
#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
FATTY ACIDS  
#HALOGEN COMPOUNDS  
IODINE COMPOUNDS  
#ORGANIC COMPOUNDS  
ION ACCELERATORS  
2403 2405 3404  
BT #PARTICLE ACCELERATORS  
RT SYNCHROTRONS  
ION ATOM INTERACTIONS  
0602 1804 2401 2404  
BT #PARTICLE INTERACTIONS  
RT CHARGE EXCHANGE  
INTERACTIONS  
ION SCATTERING  
ION BEAMS  
1002 2403 2502  
BT #BEAMS (RADIATION)  
ION CURRENTS  
PARTICLE BEAMS  
RT ATOMIC BEAMS  
ION CYCLOTRON RADIATION  
ION IMPACT  
ION IRRADIATION  
MOLECULAR BEAMS  
ION CHAMBERS  
USE IONIZATION CHAMBERS  
ION CHARGE  
0603 1804 2304 2502  
BT #ELECTRIC CHARGE  
RT CHARGE EXCHANGE  
CHARGED PARTICLES  
#IONIZATION  
VALENCE  
ION CONCENTRATION  
0601 0603 1804  
RT ACIDITY  
BASES  
ION DENSITY (CONCENTRATION)  
ION DISTRIBUTION  
IONOSPHERE  
PH FACTOR  
TITRATION  
ION CURRENTS  
1804 2304 2502  
UF IONIC CONDUCTIVITY  
NT ION BEAMS  
RT SOLIONS  
ION CYCLOTRON RADIATION  
1804 2202 2402 2502  
BT CORPUSCULAR RADIATION  
#PARTICLES  
RT CYCLOTRON RESONANCE  
ION BEAMS  
IONIC WAVES  
MAGNETIC PUMPING  
PLASMA RADIATION  
PLASMA WAVES  
ION DENSITY (CONCENTRATION)  
0604 1002 1302 1804  
NT IONOSPHERIC ION DENSITY  
MAGNETOSPHERIC ION DENSITY  
MAGNETOSPHERIC PROTON DENSITY  
PROTON DENSITY (CONCENTRATION)  
BT #DENSITY (NUMBER/VOLUME)  
PARTICLE DENSITY (CONCENTRATION)  
RT ATMOSPHERIC DENSITY  
ATOM CONCENTRATION  
COSMIC RAYS  
ELECTRON DENSITY (CONCENTRATION)  
GERDIEN CONDENSERS  
ION CONCENTRATION  
ION DISTRIBUTION  
ION PROBES

#IONIZATION  
IONOGRAMS  
IONOSPHERE  
PLASMA DENSITY  
SARA EQUATIONS  
SPACE DENSITY  
ION DISTRIBUTION  
0604 1302 1804  
BT #DISTRIBUTION (PROPERTY)  
RT CHARGE DISTRIBUTION  
CURRENT DISTRIBUTION  
ELECTROHYDRODYNAMICS  
ION CONCENTRATION  
ION DENSITY (CONCENTRATION)  
ION MOTION  
IONIC MOBILITY  
SPATIAL DISTRIBUTION  
VERTICAL DISTRIBUTION  
ION EMISSION  
1411 1804 2402  
BT #DECAY  
EMISSION  
PARTICLE EMISSION  
RT ION PRODUCTION RATES  
#ION SOURCES  
#IONIZATION  
THERMIONIC EMISSION  
ION ENGINES  
1504 1804 2803  
UF IONIC PROPELLANTS  
THERMIONIC REACTORS  
NT CESIUM ENGINES  
BT #ENGINES  
RT ARC JET ENGINES  
BEAM SWITCHING  
ELECTROSTATIC ENGINES  
ELECTROTHERMAL ENGINES  
ION PROPULSION  
IONIZERS  
NUCLEAR ROCKET ENGINES  
PLASMA ENGINES  
RESTARTABLE ROCKET ENGINES  
SUSTAINER ROCKET ENGINES  
ION EXCHANGE MEMBRANE ELECTROLYTES  
0302 0406 0603  
BT #CONDUCTORS  
ELECTROLYTES  
#MEMBRANES  
RT FUEL CELLS  
ION EXCHANGE RESINS  
ION SELECTIVE ELECTRODES  
#SEPARATORS  
ION EXCHANGE RESINS  
0604 1804 1808 2203  
BT #RESINS  
RT ION EXCHANGE MEMBRANE ELECTROLYTES  
ION EXCHANGING  
#PLASTICS  
ZEOLITES  
ION EXCHANGING  
0602 0603 0604 1804  
BT #EXCHANGING  
RT BEDS (PROCESS ENGINEERING)  
CHARGE TRANSFER  
DEMINEALIZING  
GLASS ELECTRODES  
HYDROMETALLURGY  
ION EXCHANGE RESINS  
ION SELECTIVE ELECTRODES  
ISOTOPE SEPARATION  
KAOLINITE  
METATHESIS  
SEPARATION  
SOFTENING  
WATER TREATMENT  
ION EXTRACTION  
0602 1804  
BT EXTRACTION  
RT ISOTOPE SEPARATION  
SEPARATION  
SOLVENT EXTRACTION  
ION GAGES  
USE IONIZATION GAGES  
ION-GAS INTERACTIONS  
USE GAS-ION INTERACTIONS  
ION IMPACT  
0601 1804 2304  
BT IMPACT  
RT ELECTRON IMPACT  
ION BEAMS  
ION SCATTERING  
POINT IMPACT

ION SCATTERING

RECOIL IONS  
TOROIDS  
TOWNSEND AVALANCHE  
TOWNSEND DISCHARGE  
ION INJECTION  
0602 1002 1804 2502  
BT #INJECTION  
RT CARRIER INJECTION  
ION PROPULSION  
IONIC MOBILITY  
PLASMA ACCELERATORS  
#PLASMA GENERATORS  
PLASMA JETS  
ION IRRADIATION  
0602 1002 1804 2202  
NT DEUTERON IRRADIATION  
BT #IRRADIATION  
RT AURORAL IRRADIATION  
ELECTRON IRRADIATION  
ION BEAMS  
ION SCATTERING  
IONIC COLLISIONS  
NEUTRON IRRADIATION  
ION MICROSCOPES  
0905 1407 2601  
BT MICROSCOPES  
RT ELECTRON MICROSCOPES  
ION MOTION  
0603 1002 1804 2304 2502  
RT ION DISTRIBUTION  
IONIC WAVES  
MOTION  
PENNING DISCHARGE  
PLASMA COMPOSITION  
PLASMA DIFFUSION  
ION OSCILLATION  
USE PLASMA OSCILLATIONS  
ION PROBES  
1302 1804 3108  
BT #MEASURING INSTRUMENTS  
RT ION DENSITY (CONCENTRATION)  
IONOSPHERES  
RADIO FREQUENCY IMPEDANCE PROBES  
ION PRODUCTION RATES  
0602 0603 1804 2404 2502  
BT #IONIZATION  
#RATES (PER TIME)  
RT AVALANCHES  
CHARGE EXCHANGE  
ION EMISSION  
ION RECOMBINATION  
ION SCATTERING  
#ION SOURCES  
RECOIL IONS  
THERMIONIC CONVERTERS  
ION PROPULSION  
1803 2402 2803  
BT ELECTRIC PROPULSION  
ELECTROSTATIC PROPULSION  
LOW THRUST PROPULSION  
#PROPULSION  
SPACECRAFT PROPULSION  
RT DUOPLASMATRONS  
ELECTROMAGNETIC PROPULSION  
HIGH TEMPERATURE PROPELLANTS  
ION ENGINES  
ION INJECTION  
#ION SOURCES  
NUCLEAR ELECTRIC PROPULSION  
PLASMA PROPULSION  
VON ARDENNE DUOPLASMATRONS  
ION PUMPS  
1501 1506  
BT #PUMPS  
#VACUUM APPARATUS  
VACUUM PUMPS  
RT GETTERS  
ION RECOMBINATION  
0602 0604 2502  
BT #CHEMICAL REACTIONS  
#RECOMBINATION REACTIONS  
RT ATOMIC RECOMBINATION  
DEIONIZATION  
ELECTRON-ION RECOMBINATION  
ELECTRON RECOMBINATION  
ION PRODUCTION RATES  
#ION SOURCES  
RECOMBINATION COEFFICIENT  
ION SCATTERING  
1804 2402 2502 2601  
BT #SCATTERING  
RT ELECTRON SCATTERING

## ION SELECTIVE ELECTRODES

ION ATOM INTERACTIONS  
 ION IMPACT  
 ION IRRADIATION  
 ION PRODUCTION RATES  
 IONIC COLLISIONS  
 IONIC DIFFUSION  
 PROTON SCATTERING  
 RECOIL IONS  
 ION SELECTIVE ELECTRODES  
 0604 0904 0906 2304  
 BT #ELECTRODES  
 RT CHEMICAL ANALYSIS  
 ION EXCHANGE MEMBRANE ELECTROLYTES  
 ION EXCHANGING  
 ION SHEATHS  
 1804 2502  
 BT SHEATHS  
 RT PLASMA CLOUDS  
 PLASMA PROBES  
 PLASMA SHEATHS  
 #ION SOURCES  
 0603 1804 2502  
 NT DUOPLASMATRONS  
 PLASMATRONS  
 VON ARDENNE DUOPLASMATRONS  
 RT ELECTRON SOURCES  
 ION EMISSION  
 ION PRODUCTION RATES  
 ION PROPULSION  
 ION RECOMBINATION  
 #IONIZATION  
 #IONIZING RADIATION  
 LINEAR ACCELERATORS  
 #PARTICLE ACCELERATORS  
 #PLASMA GENERATORS  
 RADIATION SOURCES  
 SOURCES  
 SPUTTERING  
 ION TEMPERATURE  
 1408 1804 3303  
 BT #TEMPERATURE  
 RT AUROREAL TEMPERATURE  
 IONOSPHERIC TEMPERATURE  
 PLASMA TEMPERATURE  
 SPACE TEMPERATURE  
 SPECIFIC HEAT  
 ION TRAPS (INSTRUMENTATION)  
 1302 1804 2002  
 BT #MEASURING INSTRUMENTS  
 TRAPS  
 RT RADIATION COUNTERS  
 VAPOR TRAPS  
 IONIC COLLISIONS  
 0602 1804 2401  
 BT COLLISIONS  
 RT ATOMIC COLLISIONS  
 ION IRRADIATION  
 ION SCATTERING  
 RECOIL IONS  
 IONIC CONDUCTIVITY  
 USE ION CURRENTS  
 IONIC CRYSTALS  
 1804 2304 2601  
 BT #CRYSTALS  
 RT CHEMICAL BONDS  
 #CRYSTAL LATTICES  
 EXCITONS  
 POLARONS  
 IONIC DIFFUSION  
 0602 1804  
 BT #DIFFUSION  
 RT AMBIPOLAR DIFFUSION  
 DIFFUSION WAVES  
 ELECTRON DIFFUSION  
 ION SCATTERING  
 IONIC WAVES  
 PLASMA DIFFUSION  
 IONIC MOBILITY  
 0603 1804 2502  
 BT MOBILITY  
 RT #TRANSPORT PROPERTIES  
 AMBIPOLAR DIFFUSION  
 ANIONS  
 ATOMIC MOBILITIES  
 CATIONS  
 ELECTROHYDRODYNAMICS  
 ELECTROLYSIS  
 ELECTROLYTIC CELLS  
 ELECTROMIGRATION  
 ION DISTRIBUTION  
 ION INJECTION  
 #IONS

MOTION  
 IONIC PROPELLANTS  
 USE ION ENGINES  
 IONIC REACTIONS  
 0602 1804 2311 2404  
 RT CHARGE TRANSFER  
 MOLECULAR INTERACTIONS  
 IONIC WAVES  
 1804 2308 2402 2502  
 BT #ELASTIC WAVES  
 RT COLLISIONLESS PLASMAS  
 ELECTROSTATIC WAVES  
 ION CYCLOTRON RADIATION  
 ION MOTION  
 IONIC DIFFUSION  
 IONOSPHERIC CONDUCTIVITY  
 IONOSPHERIC PROPAGATION  
 PLASMA WAVES  
 WAVES  
 #IONIZATION  
 0604 2401 2403 3407  
 UP ELECTRON IONIZATION  
 NT ATMOSPHERIC IONIZATION  
 AUROREAL IONIZATION  
 AUTOIONIZATION  
 FLAME IONIZATION  
 GAS IONIZATION  
 ION PRODUCTION RATES  
 NONEQUILIBRIUM IONIZATION  
 PHOTOIONIZATION  
 SURFACE IONIZATION  
 RT ATOMIC COLLISIONS  
 ATOMIC EXCITATIONS  
 CORONAS  
 DISINTEGRATION  
 DISSOCIATION  
 ELECTRIC ARCS  
 ELECTRIC CORONA  
 ELECTRIC DISCHARGES  
 ELECTRIC SPARKS  
 ELECTRON ATTACHMENT  
 #EXCITATION  
 ION CHARGE  
 ION DENSITY (CONCENTRATION)  
 ION EMISSION  
 #ION SOURCES  
 IONOSPHERIC COMPOSITION  
 MAGNETOHYDRODYNAMICS  
 MOLECULAR EXCITATION  
 OXYGEN RECOMBINATION  
 SCHWARZSCHILD METRIC  
 THERMAL DISSOCIATION  
 IONIZATION CHAMBERS  
 1302 1406 1804 2401 2901  
 UP ION CHAMBERS  
 IONIZATION COUNTERS  
 NT BUBBLE CHAMBERS  
 CLOUD CHAMBERS  
 GEIGER COUNTERS  
 PROPORTIONAL COUNTERS  
 SPARK CHAMBERS  
 RT CHAMBERS  
 COUNTERS  
 DOSIMETERS  
 ELECTRON COUNTERS  
 IONIZATION FREQUENCIES  
 IONIZERS  
 NEUTRON COUNTERS  
 RADIATION COUNTERS  
 RADIATION MEASURING INSTRUMENTS  
 THRESHOLD DETECTORS (DOSIMETERS)  
 IONIZATION COEFFICIENTS  
 0603 1804 2401  
 BT #COEFFICIENTS  
 RT IONIZATION POTENTIALS  
 IONIZATION COUNTERS  
 USE IONIZATION CHAMBERS  
 RADIATION COUNTERS  
 IONIZATION CROSS SECTIONS  
 0602 1804 2401  
 RT ABSORPTION CROSS SECTIONS  
 CROSS SECTIONS  
 IONIZATION FREQUENCIES  
 NONADIABATIC THEORY  
 SCATTERING CROSS SECTIONS  
 IONIZATION FREQUENCIES  
 1804 2401 2402  
 BT #FREQUENCIES  
 RT IONIZATION CHAMBERS  
 IONIZATION CROSS SECTIONS  
 IONIZATION POTENTIALS

## NASA THESAURUS (ALPHABETICAL LISTING)

IONIZATION GAGES  
 1406 1804 2401  
 UP ION GAGES  
 NT ALPHATRONS  
 BAYARD-ALPERT IONIZATION GAGES  
 PENNING GAGES  
 PHILIPS IONIZATION GAGES  
 BT #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 #VACUUM APPARATUS  
 VACUUM GAGES  
 RT HOT CATHODES  
 KNUDSEN GAGES  
 MCLEOD GAGES  
 ORBITRONS  
 PIRANI GAGES  
 PRESSURE MEASUREMENTS  
 IONIZATION POTENTIALS  
 1804 2401 2402  
 BT #POTENTIAL ENERGY  
 RT ACTIVATION  
 ELECTRIC POTENTIAL  
 IONIZATION COEFFICIENTS  
 IONIZATION FREQUENCIES  
 NUCLEAR BINDING ENERGY  
 POTENTIAL  
 SAHA EQUATIONS  
 WORK FUNCTIONS  
 IONIZED GASES  
 0603 1804 2401  
 NT STELLAR WINDS  
 BT #GASES  
 RT COSMIC GASES  
 ELECTRON GAS  
 FOKKER-PLANCK EQUATION  
 GAS IONIZATION  
 GAS TEMPERATURE  
 HIGH TEMPERATURE GASES  
 LORENTZ GAS  
 #PLASMAS (PHYSICS)  
 RECOMBINATION COEFFICIENT  
 IONIZED PLASMAS  
 USE #PLASMAS (PHYSICS)  
 IONIZERS  
 0602 0903 1804  
 RT FILAMENTS  
 GAS IONIZATION  
 GRIDS  
 ION ENGINES  
 IONIZATION CHAMBERS  
 SURFACE IONIZATION  
 TUBE GRIDS  
 #IONIZING RADIATION  
 1804 2401 2402  
 NT ALPHA PARTICLES  
 BETA PARTICLES  
 COSMIC RAY SHOWERS  
 COSMIC RAYS  
 FAR ULTRAVIOLET RADIATION  
 GAMMA RAY BEAMS  
 GAMMA RAYS  
 LYMAN ALPHA RADIATION  
 LYMAN BETA RADIATION  
 NEAR ULTRAVIOLET RADIATION  
 PRIMARY COSMIC RAYS  
 SECONDARY COSMIC RAYS  
 SOLAR COSMIC RAYS  
 SOLAR X-RAYS  
 ULTRAVIOLET RADIATION  
 X RAYS  
 RT ABSORPTION SPECTRA  
 AVALANCHES  
 #BEAMS (RADIATION)  
 COHERENT ELECTROMAGNETIC RADIATION  
 CORPUSCULAR RADIATION  
 #ELECTROMAGNETIC RADIATION  
 ELECTRON BEAMS  
 ELEMENTARY PARTICLES  
 EMISSION  
 FLUENCE  
 #ION SOURCES  
 #IRRADIATION  
 LINEAR ENERGY TRANSFER (LET)  
 MONOCHROMATIC RADIATION  
 NUCLEAR RADIATION  
 PARTICLE TRAJECTORIES  
 RADIATION  
 RADIATION BELTS  
 RADIATION COUNTERS  
 RADIATION DAMAGE  
 RADIATION HAZARDS  
 RADIOACTIVE MATERIALS

# NASA THESAURUS (ALPHABETICAL LISTING)

# IRBM (MISSILES)

RADIOACTIVITY  
 RADIOCHEMISTRY  
 SOLAR RADIATION  
 STERILIZATION  
 IONOGRAMS  
 1302 1804 2002  
 RT ION DENSITY (CONCENTRATION)  
 IONOSONDES  
 RIOMETERS  
 IONOSONDES  
 1302 1804 2003 2401  
 BT #MEASURING INSTRUMENTS  
 #RADIO EQUIPMENT  
 RADIO TRANSMITTERS  
 RADIOSONDES  
 SONDES  
 #TRANSMITTERS  
 RT ION PROBES  
 IONOGRAMS  
 IONOSPHERIC SOUNDING  
 RIOMETERS  
 SOUNDING ROCKETS  
 IONOSPHERE  
 1302 2003  
 NT D REGION  
 E-1 LAYER  
 E-2 LAYER  
 E-3 LAYER  
 E REGION  
 F REGION  
 F 1 REGION  
 F 2 REGION  
 LOWER IONOSPHERE  
 SPORADIC E LAYER  
 BT #EARTH ATMOSPHERE  
 RT ATMOSPHERIC IONIZATION  
 CHEMOSPHERE  
 ELECTROJETS  
 EXOSPHERE  
 HETEROSPHERE  
 HOMOSPHERE  
 ION CONCENTRATION  
 ION DENSITY (CONCENTRATION)  
 IONOSPHERIC PROPAGATION  
 IONOSPHERIC STORMS  
 LAYERS  
 MAGNETOSPHERE  
 MESOSPHERE  
 MIDLATITUDE ATMOSPHERE  
 #REGIONS  
 SHEAR LAYERS  
 THERMOSPHERE  
 IONOSPHERE EXPLORER A  
 USE EXPLORER 20 SATELLITE  
 IONOSPHERIC ABSORPTION  
 USE ELECTROMAGNETIC ABSORPTION  
 IONOSPHERIC PROPAGATION  
 IONOSPHERIC BLACKOUT  
 USE BLACKOUT (PROPAGATION)  
 IONOSPHERIC COMPOSITION  
 0603 1302 1804  
 BT ATMOSPHERIC COMPOSITION  
 #COMPOSITION (PROPERTY)  
 RT ATOM CONCENTRATION  
 CHEMICAL COMPOSITION  
 GAS COMPOSITION  
 #IONIZATION  
 PARTICLE DENSITY (CONCENTRATION)  
 PLASMA COMPOSITION  
 IONOSPHERIC CONDUCTIVITY  
 0710 1302 1804  
 BT ATMOSPHERIC CONDUCTIVITY  
 #ELECTRICAL PROPERTIES  
 ELECTRICAL RESISTIVITY  
 #TRANSPORT PROPERTIES  
 RT CONDUCTIVITY  
 ELECTROJETS  
 IONIC WAVES  
 IONOSPHERIC CURRENTS  
 PLASMA CONDUCTIVITY  
 IONOSPHERIC CROSS MODULATION  
 1302 1804 2401 2402  
 BT CROSSTALK  
 #ELECTROMAGNETIC INTERFERENCE  
 #MODULATION  
 RADIO FREQUENCY INTERFERENCE  
 RT LUXEMBOURG EFFECT  
 IONOSPHERIC CURRENTS  
 1302 1804 2003 2401 2402  
 NT AURORAL ELECTROJETS  
 ELECTROJETS  
 EQUATORIAL ELECTROJET

BT ATMOSPHERIC ELECTRICITY  
 #ELECTRIC CURRENT  
 #ELECTRICITY  
 RT IONOSPHERIC CONDUCTIVITY  
 #IONOSPHERIC DISTURBANCES  
 IONOSPHERIC DRIFT  
 IONOSPHERIC ELECTRON DENSITY  
 IONOSPHERIC ION DENSITY  
 TRAVELING IONOSPHERIC DISTURBANCES  
 #IONOSPHERIC DISTURBANCES  
 1302 1804  
 BT IONOSPHERIC STORMS  
 SUDDEN IONOSPHERIC DISTURBANCES  
 TRAVELING IONOSPHERIC DISTURBANCES  
 RT BLACKOUT (PROPAGATION)  
 DISTURBANCES  
 IONOSPHERIC CURRENTS  
 IONOSPHERIC PROPAGATION  
 MAGNETIC VARIATIONS  
 IONOSPHERIC DRIFT  
 1302 1804  
 RT DRIFT  
 DRIFT RATE  
 ELECTROJETS  
 IONOSPHERIC CURRENTS  
 MAGNETIC RIGIDITY  
 POLARIZATION (CHARGE SEPARATION)  
 RADIATION BELTS  
 IONOSPHERIC ELECTRON DENSITY  
 0710 1302 1804  
 BT #DENSITY (NUMBER/VOLUME)  
 ELECTRON DENSITY (CONCENTRATION)  
 PARTICLE DENSITY (CONCENTRATION)  
 RT IONOSPHERIC CURRENTS  
 MAGNETOSPHERIC ELECTRON DENSITY  
 IONOSPHERIC F-SCATTER PROPAGATION  
 0710 1302 1804  
 BT ELECTROMAGNETIC SCATTERING  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 IONOSPHERIC PROPAGATION  
 RADIO TRANSMISSION  
 SCATTER PROPAGATION  
 #SCATTERING  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 WAVE PROPAGATION  
 WAVE SCATTERING  
 IONOSPHERIC HEATING  
 1302 1804 2003 3304  
 BT #HEATING  
 RT #ATMOSPHERIC RADIATION  
 IONOSPHERIC PROPAGATION  
 IONOSPHERIC TEMPERATURE  
 PLASMA HEATING  
 IONOSPHERIC ION DENSITY  
 1302 1804 2401  
 BT #DENSITY (NUMBER/VOLUME)  
 ION DENSITY (CONCENTRATION)  
 PARTICLE DENSITY (CONCENTRATION)  
 RT IONOSPHERIC CURRENTS  
 MAGNETOSPHERIC ION DENSITY  
 IONOSPHERIC NOISE  
 0704 1302 1804 2402  
 NT WHISTLERS  
 BT #ATMOSPHERIC RADIATION  
 BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 ELECTROMAGNETIC NOISE  
 RADIO FREQUENCY INTERFERENCE  
 RT BACKGROUND NOISE  
 BACKGROUND RADIATION  
 RIOMETERS  
 SKY WAVES  
 IONOSPHERIC PROPAGATION  
 0710 1302 1804  
 UP IONOSPHERIC ABSORPTION  
 IONOSPHERIC REFLECTION  
 RT IONOSPHERIC F-SCATTER PROPAGATION  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 RADIO TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 WAVE PROPAGATION  
 RT IONIC WAVES  
 IONOSPHERE  
 #IONOSPHERIC DISTURBANCES  
 IONOSPHERIC HEATING  
 LUXEMBOURG EFFECT  
 MAGNETOIONICS  
 ORBIS  
 ORBIS CAL SATELLITE  
 POLAR RADIO BLACKOUT

RIOMETERS  
 SCATTER PROPAGATION  
 TRAVELING IONOSPHERIC DISTURBANCES  
 IONOSPHERIC REFLECTION  
 USE IONOSPHERIC PROPAGATION  
 IONOSPHERIC SOUNDING  
 1302 1804 2002 2003 3108  
 BT SOUNDING  
 RT ALOUETTE 2 SATELLITE  
 IONOSONDES  
 ORBIS  
 ORBIS CAL SATELLITE  
 ROCKET SOUNDING  
 IONOSPHERIC STORMS  
 0710 1302 1804 2003 2402  
 NT SUDDEN IONOSPHERIC DISTURBANCES  
 BT #IONOSPHERIC DISTURBANCES  
 #STORMS  
 RT DISTURBANCES  
 IONOSPHERE  
 IONOSPHERICS  
 NOISE STORMS  
 SOLAR STORMS  
 SPREAD F  
 TRAVELING IONOSPHERIC DISTURBANCES  
 IONOSPHERIC TEMPERATURE  
 1302 1804 2003 3303  
 BT ATMOSPHERIC TEMPERATURE  
 #TEMPERATURE  
 RT AURORAL TEMPERATURE  
 ELECTRON ENERGY  
 ION TEMPERATURE  
 IONOSPHERIC HEATING  
 IONOSPHERICS  
 0704 1301 2402 2901 2902 2903  
 NT DAWN CHORUS  
 HISS  
 BT ATMOSPHERICS  
 BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 ELECTROMAGNETIC NOISE  
 RADIO FREQUENCY INTERFERENCE  
 RT IONOSPHERIC STORMS  
 RADIO AURORAS  
 #IONS  
 0603 0604 1302 1703 1804 1808 24 1  
 NT ANIONS  
 ANTIPROTONS  
 CATIONS  
 CESIUM ION  
 DEUTERONS  
 FERRIC ION  
 HEAVY IONS  
 HYDROGEN IONS  
 HYDRONIUM IONS  
 MANGANESE IONS  
 METAL IONS  
 MOLECULAR IONS  
 NITROGEN IONS  
 RECOIL IONS  
 TRITONS  
 TRIVALENT IONS  
 VANADYL RADICAL  
 RT ALPHA PARTICLES  
 ATOMS  
 #CHEMICAL ELEMENTS  
 CORPUSCULAR RADIATION  
 ELECTROLYTES  
 FREE RADICALS  
 IONIC MOBILITY  
 #MOLECULES  
 MONATOMIC MOLECULES  
 NUCLEI (NUCLEAR PHYSICS)  
 #PLASMAS (PHYSICS)  
 POLYATOMIC MOLECULES  
 VALENCE  
 IOWA  
 1305  
 BT UNITED STATES OF AMERICA  
 IP (IMPACT PREDICTION)  
 USE COMPUTERIZED SIMULATION  
 IQSY (INTERNATIONAL YEAR)  
 USE INTERNATIONAL QUIET SUN YEAR  
 IRAN  
 1305  
 RT ASIA  
 NATIONS  
 IRASERS  
 USE INFRARED LASERS  
 IRBM (MISSILES)  
 USE INTERMEDIATE RANGE BALLISTIC  
 MISSILES



# IRELAND

IRELAND  
1305  
RT #ISLANDS  
NATIONS  
IRIDESCENCE  
0605 2306 3408  
RT ELECTROMAGNETIC PROPERTIES  
OPALESCE

IRIDIUM  
0603 1703  
NT IRIDIUM ISOTOPES  
BT #METALS  
TRANSITION METALS

IRIDIUM ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
IRIDIUM  
ISOTOPES  
NUCLIDES

IRIS SATELLITES  
3107

BT #SATELLITES  
RT SOLAR ACTIVITY  
SOLAR CYCLES  
SOLAR ENERGY  
SOLAR FLARES  
SOLAR RADIATION  
SOLAR SENSORS

IRISES (MECHANICAL APERTURES)

0404 1412  
BT APERTURES  
RT #OPENINGS  
CAMERA SHUTTERS  
WAVEGUIDE WINDOWS  
WAVEGUIDES

IRON  
1703  
NT IRON ISOTOPES  
IRON 57  
IRON 59  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS  
RT FERROUS METALS

IRON ALLOYS  
1701 1703 1704 3203  
NT AUSTENITIC STAINLESS STEELS  
BAINITIC STEEL  
CARBON STEELS  
CHROMIUM STEELS  
CROLOY  
HIGH STRENGTH STEELS  
MAGNAG STEELS  
MARTENSITIC STAINLESS STEELS  
NICKEL STEELS  
STAINLESS STEELS  
STEELS  
BT #ALLOYS  
RT AUSTENITE  
BAINITE  
BEARING ALLOYS  
CEMENTITE  
FERRITES  
HASTELLOY (TRADEMARK)  
INCONEL (TRADEMARK)  
KAMACITE  
MARTENSITE  
NIMONIC ALLOYS  
PEARLITE  
PERMALLOYS (TRADEMARK)  
ZIRCALOYS (TRADEMARK)

IRON CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#IRON COMPOUNDS  
METAL HALIDES

#IRON COMPOUNDS  
0603 1804  
NT ALKYLPERROCENE  
BARIUM FERRATES  
CHROMITES  
COHENITE  
CORDIERITE  
FAYALITE  
FERRATES  
FERRITES  
FERROCENES  
HEMATITE  
ILMENITE

IRON CHLORIDES  
IRON CYANIDES  
IRON OXIDES  
LIMONITE  
MAGNETITE  
PYRITES  
PYRRHOTITE  
SCHREIBERSITE  
SIDERITES  
TROILITE  
RT CHEMICAL COMPOUNDS  
GROUP 8 COMPOUNDS  
METAL COMPOUNDS

IRON CYANIDES  
0603 1804  
BT CYANIDES  
#IRON COMPOUNDS

IRON ISOTOPES  
1703 2406  
NT IRON 57  
IRON 59

BT #CHEMICAL ELEMENTS  
IRON  
ISOTOPES  
NUCLIDES  
TRANSITION METALS  
RT FERROUS METALS

IRON METEORITES  
1804 3005  
UF SIDERITE METEORITES  
NT AROOS METEORITE  
ODESSA METEORITE  
SIKHOTE-LIN METEORITE  
WASHINGTON COUNTY METEORITE  
BT #CELESTIAL BODIES  
METEORITES

RT ACHONDrites  
HARLETON METEORITE  
KAMACITE  
LAZAREV METEORITE  
METEORITIC COMPOSITION  
METEORITIC MICROSTRUCTURES  
OKHANSK METEORITE  
SCHREIBERSITE  
STONY METEORITES  
TROILITE  
WIDHASTATTEN STRUCTURE

IRON ORES  
0603 1806  
NT HEMATITE  
BT #MINERALS

IRON OXIDES  
0603 1804

NT CHROMITES  
HEMATITE  
ILMENITE  
MAGNETITE  
BT #CHALCOGENIDES  
#IRON COMPOUNDS  
METAL OXIDES  
OXIDES

IRON 57  
1703 2406  
BT #CHEMICAL ELEMENTS  
IRON  
IRON ISOTOPES  
ISOTOPES  
NUCLIDES  
TRANSITION METALS

IRON 59  
1703 2406  
BT #CHEMICAL ELEMENTS  
IRON  
IRON ISOTOPES  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSITION METALS

IROQUOIS HELICOPTER  
USE UH-1 HELICOPTER  
IRRADIANCE  
2310 2401 2405  
(DETECTION RATE PER UNIT AREA OF  
RADIATION)

NT ILLUMINANCE  
SOLAR CONSTANT  
BT FLUX DENSITY  
RADIANT FLUX DENSITY  
#RATES (PER TIME)  
RT ELECTRON FLUX DENSITY  
LUMINANCE  
LUMINOUS INTENSITY

# NASA THESAURUS (ALPHABETICAL LISTING)

NEUTRON FLUX DENSITY  
PROTON FLUX DENSITY  
RADIANCE  
SOLAR CONSTANT  
SOLAR FLUX DENSITY  
#IRRADIATION  
0411 1505 2401 2403 2405 2903 3407

RT AURORAL IRRADIATION  
DEUTERON IRRADIATION  
ELECTRON IRRADIATION  
ION IRRADIATION  
NEUTRON IRRADIATION  
PROTON IRRADIATION  
X RAY IRRADIATION  
BT ACTIVATION  
#BEAMS (RADIATION)  
BOMBARDMENT  
DOSIMETERS  
ELECTROMAGNETIC ABSORPTION  
ELECTRON PROBES  
EMISSION  
#EXCITATION  
EXPOSURE  
FLUX DENSITY  
#IONIZING RADIATION  
NUCLEAR CAPTURE  
NUCLEAR FUSION  
NUCLEAR RADIATION  
PRESERVING  
RADIATION  
RADIATION DOSAGE  
RADIATION EFFECTS  
RADIATION MEASUREMENT  
RADIATION TOLERANCE  
RADIOBIOLOGY  
RADIOGRAPHY  
#TARGETS

IRRADIATION  
0408 0410  
RT DISORIENTATION  
DITHERS  
MENTAL PERFORMANCE  
PREJUDICES  
PSYCHOSES  
SCHIZOPHRENIA

IRREGULARITIES  
0408 3408  
RT #ABNORMALITIES  
#DEFECTS  
DEVIATION  
NONUNIFORMITY  
IRREVERSIBLE PROCESSES  
0602 3407  
RT #ONSAGER RELATIONSHIP  
REACTION KINETICS  
THERMODYNAMICS  
THERMOVISCOELASTICITY  
VARIATIONAL PRINCIPLES

IRRIGATION  
0409 3404  
RT AGRICULTURE  
CANALS  
CROP VIGOR  
DITCHES  
DRAINAGE  
FARM CROPS  
PONDS  
SEEPAGE  
WATER CONSUMPTION

IRRITATION  
0408 3406 3407  
NT TOXICITY AND SAFETY HAZARD  
RT REACTION  
IRRADIATION FLOW  
USE POTENTIAL FLOW

ISCHEMIA  
0401 0405 0408  
BT BLOOD CIRCULATION  
#CIRCULATION  
RT CONGESTION  
VASOCONSTRICTION

ISENTROPE  
1202 2003 3304  
RT ADIABATIC CONDITIONS  
ISENTROPIC PROCESSES  
MOLLIER DIAGRAM  
POISSON EQUATION  
ISENTROPIC PROCESSES  
2003 2311 3304  
RT BERNOULLI THEOREM  
ISENTROPE  
ISOENERGETIC PROCESSES

# NASA THESAURUS (ALPHABETICAL LISTING)

ISOPYCNIC PROCESSES  
 PROCESSES  
 THERMODYNAMIC EQUILIBRIUM  
 ISING MODEL  
 USE FERROMAGNETISM  
 MATHEMATICAL MODELS  
 ISIS-A  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ISIS SATELLITES  
 #SATELLITES  
 RT ALOUETTE PROJECT  
 ISIS-B  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ISIS SATELLITES  
 #SATELLITES  
 ISIS-C  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ISIS SATELLITES  
 #SATELLITES  
 ISIS SATELLITES  
 1302 3107 3409  
 UP INTERNATIONAL SATS FOR IONOSPHERIC  
 STUDY  
 NT ALOUETTE 2 SATELLITE  
 ISIS-A  
 ISIS-B  
 ISIS-C  
 ISIS-I  
 BT ARTIFICIAL SATELLITES  
 #SATELLITES  
 RT ALOUETTE SATELLITES  
 ISIS-X  
 1302 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 ISIS SATELLITES  
 #SATELLITES  
 RT ALOUETTE B SATELLITE  
 ISKBA AIRCRAFT  
 USE TS-11 AIRCRAFT  
 #ISLANDS  
 1305 1306  
 NT BERMUDA  
 GREAT BRITAIN  
 GREENLAND  
 ICELAND  
 JAPAN  
 JOHNSTON ISLAND  
 KURILE ISLANDS  
 MALTA  
 NEW ZEALAND  
 PACIFIC ISLANDS  
 PHILIPPINES  
 PUERTO RICO  
 SAMOA  
 TASMANIA  
 WALLOPS ISLAND  
 WEST INDIES  
 RT CORAL REEFS  
 IRELAND  
 ISOBARS  
 1408 2001 2003  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BAROCLINITY  
 BAROTROPISM  
 ISOBARS (PRESSURE)  
 NUCLEAR ISOBARS  
 POLYTROPIC PROCESSES  
 ISOBARS (PRESSURE)  
 1408 2002 2003  
 RT ATMOSPHERIC PRESSURE  
 GEOSTROPHIC WIND  
 #GRADIENTS  
 ISOBARS  
 ISOCHORIC PROCESSES  
 ISOPYCNIC PROCESSES  
 ISOTHERMAL PROCESSES  
 METEOROLOGICAL CHARTS  
 PRESSURE DISTRIBUTION  
 PRESSURE GRADIENTS  
 ISOBUTANE  
 USE BUTANES  
 ISOBUTYLENE  
 USE BUTENES

ISOCHORIC PROCESSES  
 2311 3304  
 RT ISOBARS (PRESSURE)  
 ISOPYCNIC PROCESSES  
 THERMODYNAMIC EQUILIBRIUM  
 VOLUME  
 ISOCHROMATICS  
 1405 2306  
 RT COLOR  
 DICHOISM  
 DIFFRACTION  
 INTERFEROMETRY  
 #REFRACTION  
 ISOCYANATES  
 0603 1808  
 NT DIISOCYANATES  
 FULMINATES  
 BT CYANO COMPOUNDS  
 #ESTERS  
 #NITROGEN COMPOUNDS  
 ISOENERGETIC PROCESSES  
 2311  
 RT ADIABATIC CONDITIONS  
 ISENTROPIC PROCESSES  
 THERMODYNAMIC EQUILIBRIUM  
 ISOLATION  
 0505 0602 1504 3407  
 NT SOCIAL ISOLATION  
 RT CONFINEMENT  
 CONFINING  
 DEPRIVATION  
 DISPOSAL  
 EXCLUSION  
 INSULATION  
 ISOLATORS  
 SEPARATION  
 SPACING  
 ISOLATORS  
 0904 0905 0906 1504 2309  
 RT #ATTENUATORS  
 INSULATION  
 ISOLATION  
 NOISE REDUCTION  
 SHOCK ABSORBERS  
 SPACERS  
 SUPPRESSORS  
 ISOMERIZATION  
 0602 3407  
 NT ORTHO PARA CONVERSION  
 RT CONVERSION  
 REFINING  
 ISOMERS  
 0603 1808  
 RT ATOMS  
 NUCLEAR CHEMISTRY  
 TAUTOMERS  
 ISOMORPHISM  
 0404 0408 0603 1902 2311 2601 3403  
 UP MORPHOTROPISM  
 BT MORPHOLOGY  
 RT #CRYSTAL LATTICES  
 CRYSTAL STRUCTURE  
 HOMOMORPHISMS  
 ISOPERICMETRIC PROBLEM  
 1902  
 RT ANALYTIC FUNCTIONS  
 CONTINUITY (MATHEMATICS)  
 LAGRANGE MULTIPLIERS  
 MATRICES (MATHEMATICS)  
 PROBLEMS  
 TOPOLOGY  
 ISOPHOTES  
 1303 2310 3001 3002  
 RT ILLUMINATION  
 ISOPLETES  
 USE NOMOGRAPHS  
 ISOPROPYL ALCOHOL  
 1808  
 BT ALCOHOLS  
 #ALIPHATIC COMPOUNDS  
 #HYDROXYL COMPOUNDS  
 ISOPROPYL COMPOUNDS  
 0603 1808  
 BT #ALIPHATIC COMPOUNDS  
 ISOPROPYL NITRATE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKYL COMPOUNDS  
 #ESTERS  
 NITRATE ESTERS  
 #NITROGEN COMPOUNDS

## ISOTOPE SEPARATION

ISOPYCNIC PROCESSES  
 2311 3304  
 UP ISOSTERIC PROCESSES  
 RT DENSITY (MASS/VOLUME)  
 ISENTROPIC PROCESSES  
 ISOBARS (PRESSURE)  
 ISOCHORIC PROCESSES  
 ISOSTASY  
 1308  
 RT EQUILIBRIUM  
 GEOMORPHOLOGY  
 GEOPHYSICS  
 GLACIOLOGY  
 GRAVITATION  
 HYDROSTATICS  
 OROGRAPHY  
 SEISMOLOGY  
 SUBSIDENCE  
 ISOSTATIC PRESSURE  
 1308  
 BT #PRESSURE  
 RT ATMOSPHERIC PRESSURE  
 HYDROSTATIC PRESSURE  
 STATIC PRESSURE  
 ISOSTERIC PROCESSES  
 USE ISOPYCNIC PROCESSES  
 ISOTENISCOPES  
 1203 1408  
 BT #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 RT MANOMETERS  
 VAPOR PRESSURE  
 ISOTENSOID STRUCTURES  
 1507 3202  
 RT COMPOSITE WRAPPING  
 FILAMENT WINDING  
 PRESSURE VESSELS  
 PRESTRESSING  
 #SHELLS (STRUCTURAL FORMS)  
 SPIRAL WRAPPING  
 STRUCTURES  
 ISOTHERMAL FLOW  
 1202 1203 1408 2001  
 BT #FLUID FLOW  
 RT FLOW DISTRIBUTION  
 ISOTHERMAL LAYERS  
 ISOTHERMS  
 TEMPERATURE DISTRIBUTION  
 ISOTHERMAL LAYERS  
 1203 1408 2001  
 RT ISOTHERMAL FLOW  
 ISOTHERMS  
 LAMINAR BOUNDARY LAYER  
 STRATOSPHERE  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE GRADIENTS  
 TROPOPAUSE  
 ISOTHERMAL PROCESSES  
 0602 3304 3407  
 UP NONISOTHERMAL PROCESSES  
 RT ADIABATIC CONDITIONS  
 ISOBARS (PRESSURE)  
 ISOTHERMS  
 THERMODYNAMIC EQUILIBRIUM  
 ISOTHERMS  
 1408 2001 2003 3304  
 RT ATMOSPHERIC TEMPERATURE  
 #GRADIENTS  
 ISOTHERMAL FLOW  
 ISOTHERMAL LAYERS  
 ISOTHERMAL PROCESSES  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 #TEMPERATURE  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE GRADIENTS  
 THERMODYNAMICS  
 ISOTHIUREA  
 0403 1808  
 ISOTONICITY  
 0404 0406 0601 1204 1306  
 RT OSMOSIS  
 ISOTOPE EFFECT  
 2406  
 UP ISOTOPE SHIFT  
 RT EFFECTS  
 ISOTOPE SEPARATION  
 0602 1804 2406  
 RT ATOMS  
 HEAVY IONS  
 ION EXCHANGING  
 ION EXTRACTION

## ISOTOPE SHIFT

ISOTOPE SHIFT  
USE ISOTOPE EFFECT  
ISOTOPE  
2406  
BT ALUMINUM ISOTOPES  
ALUMINUM 26  
ALUMINUM 27  
AMERICIUM  
AMERICIUM ISOTOPES  
AMERICIUM 241  
ANTIMONY ISOTOPES  
ARGON ISOTOPES  
ARSENIC ISOTOPES  
ASTATINE ISOTOPES  
BARIUM ISOTOPES  
BERKELIUM  
BERYLLIUM ISOTOPES  
BERYLLIUM 7  
BERYLLIUM 9  
BERYLLIUM 10  
BISMUTH ISOTOPES  
BORON ISOTOPES  
BORON 10  
BROMINE ISOTOPES  
CADMIUM ISOTOPES  
CALCIUM ISOTOPES  
CALIFORNIUM  
CALIFORNIUM ISOTOPES  
CARBON ISOTOPES  
CARBON 12  
CARBON 13  
CARBON 14  
CERIUM ISOTOPES  
CERIUM 137  
CERIUM 144  
CESIUM ISOTOPES  
CESIUM VAPOR  
CESIUM 133  
CESIUM 134  
CESIUM 137  
CESIUM 144  
CHROMIUM ISOTOPES  
COBALT ISOTOPES  
COBALT 58  
COBALT 60  
COPPER ISOTOPES  
CURIUM  
CURIUM ISOTOPES  
CURIUM 242  
CURIUM 244  
DEUTERIUM  
DYSPROSIUM ISOTOPES  
EINSTEINIUM  
ERBIUM ISOTOPES  
EUROPIUM ISOTOPES  
FERMIUM  
GALLIUM ISOTOPES  
GERMANIUM ISOTOPES  
GOLD ISOTOPES  
GOLD 198  
HAFNIUM ISOTOPES  
HELIUM ISOTOPES  
HOLMIUM ISOTOPES  
HYDROGEN ISOTOPES  
HYDROGEN 4  
INDIUM ISOTOPES  
IODINE ISOTOPES  
IODINE 125  
IODINE 131  
IODINE 132  
IRIDIUM ISOTOPES  
IRON ISOTOPES  
IRON 57  
IRON 59  
KRYPTON ISOTOPES  
KRYPTON 85  
LANTHANUM ISOTOPES  
LAWRENCIUM  
LEAD ISOTOPES  
LITHIUM ISOTOPES  
LUTETIUM  
LUTETIUM ISOTOPES  
MAGNESIUM ISOTOPES  
MANGANESE ISOTOPES  
MENDELEVIUM  
MERCURY ISOTOPES  
NEODYMIUM ISOTOPES  
NEON ISOTOPES  
NEPTUNIUM  
NEPTUNIUM ISOTOPES  
NICKEL ISOTOPES

NIObIUM ISOTOPES  
NIObIUM 95  
NITROGEN ISOTOPES  
NITROGEN 15  
NITROGEN 16  
NOBELIUM  
OSMIUM ISOTOPES  
OXYGEN ISOTOPES  
OXYGEN 18  
PHOSPHORUS ISOTOPES  
PHOSPHORUS 32  
PLATINUM ISOTOPES  
PLUTONIUM  
PLUTONIUM ISOTOPES  
PLUTONIUM 238  
PLUTONIUM 239  
PLUTONIUM 240  
PLUTONIUM 241  
POLONIUM ISOTOPES  
POLONIUM 208  
POLONIUM 209  
POLONIUM 210  
POTASSIUM ISOTOPES  
POTASSIUM 38  
POTASSIUM 39  
POTASSIUM 40  
PRASEODYMIUM ISOTOPES  
PROMETHIUM ISOTOPES  
PROTACTINIUM ISOTOPES  
RADIOACTIVE ISOTOPES  
RADIUM ISOTOPES  
RADIUM 226  
RADON ISOTOPES  
RHODIUM ISOTOPES  
RUBIDIUM ISOTOPES  
RUBIDIUM 86  
RUTHENIUM ISOTOPES  
SAMARIUM ISOTOPES  
SCANDIUM ISOTOPES  
SILICON ISOTOPES  
SILVER ISOTOPES  
SODIUM ISOTOPES  
SODIUM 22  
SODIUM 24  
STRONTIUM ISOTOPES  
STRONTIUM 85  
STRONTIUM 88  
STRONTIUM 89  
STRONTIUM 90  
SULFUR ISOTOPES  
TECHNETIUM ISOTOPES  
TELLURIUM  
TELLURIUM ISOTOPES  
TERBIUM ISOTOPES  
THALLIUM ISOTOPES  
THORIUM ISOTOPES  
THULIUM ISOTOPES  
TIN ISOTOPES  
TITANIUM ISOTOPES  
TRANSURANIUM ELEMENTS  
TRITIUM  
TUNGSTEN ISOTOPES  
URANIUM ISOTOPES  
URANIUM 232  
URANIUM 233  
URANIUM 234  
URANIUM 235  
URANIUM 238  
VANADIUM ISOTOPES  
XENON ISOTOPES  
XENON 129  
XENON 133  
XENON 135  
YTTERBIUM ISOTOPES  
YTTERBIUM ISOTOPES  
ZINC ISOTOPES  
ZIRCONIUM ISOTOPES  
ZIRCONIUM 95  
BT \*CHEMICAL ELEMENTS  
NUCLIDES  
BT ATOMS  
HEAVY IONS  
ISOTOPE SEPARATION  
ISOTOPIC LABELING  
NUCLEAR ISOBARS  
NUCLEI (NUCLEAR PHYSICS)  
RADIOACTIVE MATERIALS  
ISOTOPIC LABELING  
0601 0603 2405  
BT MARKING  
BT CHEMICAL ANALYSIS  
ISOTOPES

## NASA THESAURUS (ALPHABETICAL LISTING)

RADIOACTIVE ISOTOPES  
RADIOCHEMISTRY  
TRACERS  
ISOTOPIC SPIN  
2405 2406  
BT #SPIN  
ISOTROPIC MEDIA  
2311  
BT ISOTROPY  
BT ANISOTROPIC MEDIA  
ISOTROPIC TURBULENCE  
1202 1203 2311  
BT #TURBULENCE  
BT ATMOSPHERIC TURBULENCE  
COORDINATE TRANSFORMATIONS  
HOMOGENEOUS TURBULENCE  
INSTRUMENT RECEIVERS  
INVARIANT IMBEDDINGS  
KOLMOGOROFF THEORY  
MAGNETOHYDRODYNAMIC TURBULENCE  
TURBULENT FLOW  
ISOTROPISM  
2311 3408  
BT SYMMETRY  
ISOTROPY  
1704 2311 3408  
UP SPATIAL ISOTROPY  
BT ISOTROPIC MEDIA  
BT ANISOTROPIC FLUIDS  
#ANISOTROPY  
BRAGG ANGLE  
CRYSTAL STRUCTURE  
CRYSTALLOGRAPHY  
#CRYSTALS  
DENDRITIC CRYSTALS  
DIRECTIVITY  
FIELD STRENGTH  
#MECHANICAL PROPERTIES  
METALLOGRAPHY  
OPTICAL PROPERTIES  
ORIENTATION  
PHYSICAL PROPERTIES  
ISRAEL  
1305  
BT ASIA  
NATIONS  
ITALY  
1305  
BT EUROPE  
NATIONS  
ITCHING  
0405 0408  
BT CONTACT DERMATITIS  
ITERATION  
1902  
BT ITERATIVE SOLUTION  
BT NUMERICAL ANALYSIS  
BT PROBABILITY THEORY  
PROBLEM SOLVING  
ITERATIVE NETWORKS  
1902  
BT #CIRCUITS  
BT IMPEDANCE MATCHING  
ITERATIVE SOLUTION  
1902  
BT ITERATION  
#LEARNING  
NUMERICAL ANALYSIS  
PROBLEM SOLVING  
BT ASYMPTOTIC METHODS  
FINITE ELEMENT METHOD  
ITOS 1  
2003 2004 3107  
UP IMPROVED TIROS OPERATIONAL  
SATELLITES  
BT #SATELLITES  
TIROS SATELLITES  
BT TIROS M  
TIROS OPERATIONAL SATELLITE SYSTEM  
IVUNA METEORITE  
3005  
BT CARBONACEOUS METEORITES  
#CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES  
IZSAK ELLIPSOID  
USE ELLIPSOIDS  
GEODESY

**J-2 ENGINE**  
2808  
BT #ENGINES  
HYDROGEN OXYGEN ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT NOVA LAUNCH VEHICLES  
SATURN 1B LAUNCH VEHICLES  
SATURN 5 LAUNCH VEHICLES

**J-33 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
#TURBOMACHINERY  
BT MACE MISSILES

**J-34 ENGINE**  
2805 2801  
UF IJ-34-WE-32 ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-40 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-44 ENGINE**  
0202 2801  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES

**J-47 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-52 ENGINE**  
2801 2805  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-57 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
RT AFTERBURNING

**J-65 ENGINE**  
2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
BT A-4 AIRCRAFT

**J-71 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES

**TURBOJET ENGINES**  
**J-73 ENGINE**  
2805 2801  
UF IJ-73-GE-3 ENGINE  
IJ73 TURBOJET ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-75 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-79 ENGINE**  
2801 2805  
UF IJ-79-GE-1 ENGINE  
IJ-79 ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
RT F-4 AIRCRAFT

**J-84 ENGINE**  
0202 2801  
BT AIRCRAFT ENGINES  
#ENGINES

**J-85 ENGINE**  
2805 2801  
UF IJ-85 ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
RT BLUE GOOSE MISSILE  
OSPREY MISSILE

**J-93 ENGINE**  
2801 2805  
UF J93-MJ252H ENGINE  
J93-MJ280G ENGINE  
IJ-93 ENGINE  
IJ-93-GE-3 ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**J-97 ENGINE**  
2801 2805  
BT AIR BREATHING ENGINES  
AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOPAN ENGINES  
TURBOJET ENGINES

**J-57-P-20 ENGINE**  
2801 2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
RT AFTERBURNING

**J-69-T-25 ENGINE**  
2801 2805  
UF HARBOR 2 ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

**JABIRU ROCKET VEHICLE**  
USE JAGUAR ROCKET VEHICLE  
**JACKETS**  
0508 1504 2203 2801  
(EXCLUDES CLOTHING)  
BT ABSORBERS (MATERIALS)  
CASING  
#COOLING  
COVERINGS  
#HEATING  
INSULATION  
LININGS  
SREATHS  
**JACKING EQUIPMENT**  
USE JACKS (LIFTS)  
**JACKS**  
0202 0904 0905 1103 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT ELECTRIC CONNECTORS  
ELEVATORS (LIFTS)  
JACKS (LIFTS)  
**JACKS (ELECTRICAL)**  
USE ELECTRIC CONNECTORS  
**JACKS (LIFTS)**  
1504 2308  
UF JACKING EQUIPMENT  
BT JACKS  
LIFTS  
POSITIONING DEVICES (MACHINERY)  
TUNNELING (EXCAVATION)

**JACOBI INTEGRAL**  
1902  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT CONFORMAL MAPPING  
DIFFUSION THEORY  
ELLIPTIC FUNCTIONS  
GREEN FUNCTION  
POTENTIAL THEORY  
WEIERSTRASS FUNCTIONS  
**JACOBI MATRIX METHOD**  
1902  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
BT CALCULUS OF VARIATIONS  
EIGENVALUES  
EIGENVECTORS  
HERMITIAN POLYNOMIAL  
METHODOLOGY  
**JACOBI POLYNOMIALS**  
USE HYPERGEOMETRIC FUNCTIONS  
**JAGUAR AIRCRAFT**  
0307 3401  
BT ATTACK AIRCRAFT  
FIGHTER AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TRAINING AIRCRAFT  
RT AIRCRAFT  
BREGUET AIRCRAFT  
MILITARY AIRCRAFT  
**JAGUAR ROCKET VEHICLE**  
3106 3108 3409  
UF JABIRU ROCKET VEHICLE  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
SOUNDING ROCKETS  
BT SOLID PROPELLANT ROCKET ENGINES

**JAMMERS**  
0702 0704  
BT AIR DEFENSE  
JAMMING  
#RADAR EQUIPMENT  
#RADIO EQUIPMENT  
**JAMMING**  
0702 0704  
BT #COUNTERMEASURES  
#ELECTROMAGNETIC INTERFERENCE  
RT CLUTTER  
ELECTRONIC COUNTERMEASURES  
INTERFERENCE  
JAMMERS  
RADIO FREQUENCY INTERFERENCE  
WHITE NOISE  
**JANUS REACTOR**  
2201 2204  
BT #NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
**JANUS SPACECRAFT**  
2202 2204 3106  
BT #GLIDERS

## JAPAN

\*LIFTING BODIES  
 \*LIFTING REENTRY VEHICLES  
 \*MANEUVERABLE SPACECRAFT  
 \*MANNED SPACECRAFT  
 \*REENTRY VEHICLES  
 \*SOFT LANDING SPACECRAFT

## JAPAN

1305

BT \*ISLANDS

PACIFIC ISLANDS

RT NATIONS

## JARRING

USE MECHANICAL SHOCK

## JASON ROCKET VEHICLE

2205 3106

BT MULTISTAGE ROCKET VEHICLES

\*ROCKET VEHICLES

SOUNDING ROCKETS

RT ARGO B-5 ROCKET VEHICLE

HONEST JOHN ROCKET VEHICLE

NIKE-AJAX MISSILE

SOLID PROPELLANT ROCKET ENGINES

## JATO ENGINES

0201 2802 2805

UF JET ASSISTED TAKEOFF

NT ROCKET ENGINE 2KS-36250

ROCKET ENGINE 15KS-25000

BT AIRCRAFT LAUNCHING DEVICES

\*ENGINES

\*LAUNCHERS

RT SHORT TAKEOFF AIRCRAFT

SOLID PROPELLANT ROCKET ENGINES

TAKEOFF

## JAVELIN AIRCRAFT

USE GA-5 AIRCRAFT

## JAVELIN ROCKET VEHICLE

3106 3108

BT MULTISTAGE ROCKET VEHICLES

\*ROCKET VEHICLES

RT ARGO D-4 ROCKET VEHICLE

ROCKET PROPELLED SLEDs

SOLID PROPELLANT ROCKET ENGINES

SOUNDING ROCKETS

## JC-130 AIRCRAFT

USE C-130 AIRCRAFT

## JEANS THEORY

2405

RT THEORIES

## JEEPS

USE AUTOMOBILES

## JERBOAS

0402

BT \*ANIMALS

MAMMALS

MICE

RODENTS

VERTEBRATES

## \*JET AIRCRAFT

0204 0207 2805 3401

UF JET FLIGHT

NT TURBOJET AIRCRAFT

A-2 AIRCRAFT

A-3 AIRCRAFT

A-4 AIRCRAFT

A-5 AIRCRAFT

A-6 AIRCRAFT

A-7 AIRCRAFT

A-300 AIRCRAFT

AN-22 AIRCRAFT

AN-24 AIRCRAFT

ARGOSY HK-1 AIRCRAFT

AVRO 707 AIRCRAFT

AW 650 AIRCRAFT

B-47 AIRCRAFT

B-52 AIRCRAFT

B-57 AIRCRAFT

B-58 AIRCRAFT

B-66 AIRCRAFT

B-70 AIRCRAFT

BAC 111 AIRCRAFT

BOEING 707 AIRCRAFT

BOEING 720 AIRCRAFT

BOEING 727 AIRCRAFT

BOEING 733 AIRCRAFT

BOEING 737 AIRCRAFT

BOEING 747 AIRCRAFT

BOEING 2707 AIRCRAFT

BREGUET 941 AIRCRAFT

BREGUET 942 AIRCRAFT

BREGUET 1150 AIRCRAFT

BUCCANEER AIRCRAFT

C-2 AIRCRAFT

C-9 AIRCRAFT

C-119 AIRCRAFT

C-133 AIRCRAFT

C-135 AIRCRAFT

C-140 AIRCRAFT

C-141 AIRCRAFT

C-160 AIRCRAFT

CANBERRA AIRCRAFT

CL-41 AIRCRAFT

CL-44 AIRCRAFT

CL-84 AIRCRAFT

CL-823 AIRCRAFT

COMET 4 AIRCRAFT

CONCORDE AIRCRAFT

CONVAIR 880 AIRCRAFT

CV-990 AIRCRAFT

D-558 AIRCRAFT

DC 8 AIRCRAFT

DC 9 AIRCRAFT

DC 10 AIRCRAFT

DH 108 AIRCRAFT

DH 110 AIRCRAFT

DH 112 AIRCRAFT

DH 115 AIRCRAFT

DH 121 AIRCRAFT

DH 125 AIRCRAFT

DHC 5 AIRCRAFT

DINFIA FA AIRCRAFT

DO-31 AIRCRAFT

ELECTRA AIRCRAFT

F-2 AIRCRAFT

F-4 AIRCRAFT

F-5 AIRCRAFT

F-8 AIRCRAFT

F-9 AIRCRAFT

F-14 AIRCRAFT

F-15 AIRCRAFT

F-27 AIRCRAFT

F-84 AIRCRAFT

F-86 AIRCRAFT

F-89 AIRCRAFT

F-94 AIRCRAFT

F-100 AIRCRAFT

F-101 AIRCRAFT

F-102 AIRCRAFT

F-104 AIRCRAFT

F-105 AIRCRAFT

F-106 AIRCRAFT

F-111 AIRCRAFT

F-28 TRANSPORT AIRCRAFT

FD 2 AIRCRAFT

G-95/4 AIRCRAFT

G-91 AIRCRAFT

G-222 AIRCRAFT

GA-5 AIRCRAFT

H-126 AIRCRAFT

H-17 HELICOPTER

HE-211 AIRCRAFT

HPB-320 AIRCRAFT

HP-115 AIRCRAFT

HS-748 AIRCRAFT

HS-801 AIRCRAFT

IL-28 AIRCRAFT

IL-62 AIRCRAFT

JET PROVOST AIRCRAFT

JETSTREAM AIRCRAFT

JINDIVIK TARGET AIRCRAFT

L-1011 AIRCRAFT

L-29 JET TRAINER

LEAR JET AIRCRAFT

MH-260 AIRCRAFT

MH-262 AIRCRAFT

MIRAGE 3 AIRCRAFT

MYSTERE 20 AIRCRAFT

NORD 1500 AIRCRAFT

OV-1 AIRCRAFT

OV-10 AIRCRAFT

P-3 AIRCRAFT

P-16 AIRCRAFT

P-1052 AIRCRAFT

P-1127 AIRCRAFT

P-1154 AIRCRAFT

PD-808 AIRCRAFT

POTEZ 840 AIRCRAFT

SAAB 37 AIRCRAFT

SAAB 105 AIRCRAFT

SC-1 AIRCRAFT

SC-5 AIRCRAFT

SCIMITAR AIRCRAFT

SE-210 AIRCRAFT

SIAT 311 AIRCRAFT

T-2 AIRCRAFT

## NASA THESAURUS (ALPHABETICAL LISTING)

T-33 AIRCRAFT

T-37 AIRCRAFT

T-38 AIRCRAFT

T-39 AIRCRAFT

TS-11 AIRCRAFT

TSR-2 AIRCRAFT

TU-104 AIRCRAFT

TU-124 AIRCRAFT

TU-134 AIRCRAFT

TU-144 AIRCRAFT

TURBOPAN AIRCRAFT

TURBOPROP AIRCRAFT

U-2 AIRCRAFT

VALIANT AIRCRAFT

VAMPIRE MK 35 AIRCRAFT

VC-10 AIRCRAFT

VICTOR MK-1 AIRCRAFT

VISCOUNT AIRCRAFT

VJ-101 AIRCRAFT

VULCAN AIRCRAFT

X-21A AIRCRAFT

X-3 AIRCRAFT

X-5 AIRCRAFT

X-13 AIRCRAFT

X-14 AIRCRAFT

X-21 AIRCRAFT

XC-142 AIRCRAFT

XV-9A AIRCRAFT

XV-4 AIRCRAFT

XV-5 AIRCRAFT

YAK 40 AIRCRAFT

YS-11 AIRCRAFT

RT AIRCRAFT

AIRCRAFT NOISE

ATTACK AIRCRAFT

BOMBER AIRCRAFT

\*COMMERCIAL AIRCRAFT

FIGHTER AIRCRAFT

FLYING PLATFORMS

GENERAL AVIATION AIRCRAFT

HYPERSONIC AIRCRAFT

JET AIRCRAFT NOISE

JET PROPULSION

JETS

LOW WING AIRCRAFT

MILITARY AIRCRAFT

PASSENGER AIRCRAFT

RECONNAISSANCE AIRCRAFT

RESEARCH AIRCRAFT

SHORT TAKEOFF AIRCRAFT

SUBSONIC AIRCRAFT

\*SUPERSONIC AIRCRAFT

TAILLESS AIRCRAFT

TANDEM WING AIRCRAFT

TERRAIN FOLLOWING AIRCRAFT

TRAINING AIRCRAFT

\*TRANSPORT AIRCRAFT

TURBOJET ENGINES

TURBOPROP AIRCRAFT

\*V/STOL AIRCRAFT

WINGED VEHICLES

JET AIRCRAFT NOISE

0203

UF JET NOISE

BT AIRCRAFT NOISE

\*ELASTIC WAVES

NOISE (SOUND)

SOUND WAVES

RT AERODYNAMIC NOISE

ENGINE NOISE

\*JET AIRCRAFT

JET EXHAUST

HUFFLERS

NOISE REDUCTION

SONIC BOOMS

JET AIRSTREAMS

USE JET STREAMS (METEOROLOGY)

JET AMPLIFIERS

1201 1202 2311

UF FLUID JET AMPLIFIERS

BT \*AMPLIFIERS

FLUID AMPLIFIERS

RT COANDA EFFECT

FLUID JETS

JET FLOW

JET NOZZLES

NOZZLE WALLS

JET ASSISTED TAKEOFF

USE JATO ENGINES

JET AUGMENTED WING FLAPS

USE JET FLAPS

WING FLAPS

# BASA THESAURUS (ALPHABETICAL LISTING)

## JET BLAST EFFECTS

2311 2805 2808 3301

RT BLASTS  
EFFECTS  
EXHAUST GASES  
GROUND EFFECT  
JET EXHAUST  
NOISE (SOUND)  
PRESSURE EFFECTS  
TEMPERATURE EFFECTS

## JET BOUNDARIES

0101 1201 1202  
BT #BOUNDARIES  
FLUID BOUNDARIES  
#INTERFACES  
RT FREE JETS  
JET FLOW  
LIQUID SURFACES  
WALL JETS

## JET CONDENSERS

1202 2311  
RT CONDENSERS  
LIQUEFACTION  
NUCLEATION  
SPRAY CONDENSERS  
WORKING FLUIDS

## JET CONTROL

0104 1202  
RT #AUTOMATIC CONTROL  
BOUNDARY LAYER CONTROL  
CONTROL  
DIRECTIONAL CONTROL  
SATELLITE ATTITUDE CONTROL  
SATELLITE CONTROL  
THRUST CONTROL  
VARIABLE THRUST

## JET DAMPING

USE DAMPING  
SPIN REDUCTION

## JET DRAGON AIRCRAFT

USE DR 125 AIRCRAFT.

## JET DRIVE

USE JET PROPULSION

## JET ENGINE FUELS

2701 2702 3301

UP JET FUELS  
RT JP-4 JET FUEL  
JP-5 JET FUEL  
JP-6 JET FUEL  
JP-8 JET FUEL  
BT CHEMICAL FUELS  
#FUELS  
HYDROCARBON FUELS  
RT AIRCRAFT FUELS  
GASOLINE  
JET PROPULSION  
JP-5 JET FUEL  
KEROSENE  
TURBINES

## JET ENGINES

2805  
(EXCLUDES HYDROJET ENGINES)  
NT BRISTOL-SIDDELEY BS 53 ENGINE  
BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
BRISTOL-SIDDELEY VIPER ENGINE  
CP-700 ENGINE  
DUCTED FAN ENGINES  
J-33 ENGINE  
J-34 ENGINE  
J-40 ENGINE  
J-47 ENGINE  
J-52 ENGINE  
J-57 ENGINE  
J-65 ENGINE  
J-71 ENGINE  
J-73 ENGINE  
J-75 ENGINE  
J-79 ENGINE  
J-85 ENGINE  
J-93 ENGINE  
J-97 ENGINE  
LOW VOLUME RAMJET ENGINES  
PULSEJET ENGINES  
RA-28 ENGINE  
RAMJET ENGINES  
STP-102 ENGINE  
SUPERSONIC COMBUSTION RAMJET ENGINES  
T-34 ENGINE  
T-38 ENGINE  
T-53 ENGINE  
T-56 ENGINE

T-63 ENGINE  
T-64 ENGINE  
T-74 ENGINE  
T-76 ENGINE  
T-78 ENGINE  
TF-30 ENGINE  
TF-106 ENGINE  
TURBOFAN ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
TURBORAMJET ENGINES  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBINE ENGINES  
RT AFTERBURNING  
AIRCRAFT ENGINES  
COMBUSTION CHAMBERS  
EJECTORS  
ENGINE STARTERS  
EXHAUST NOZZLES  
FLAMEOUT  
FUEL INJECTION  
FUEL PUMPS  
GAS TURBINE ENGINES  
HELICOPTER ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
HYBRID PROPULSION  
JET EXHAUST  
JET NOZZLES  
JET PROPULSION  
JET THRUST  
ROCKET ENGINES  
#THRUST

## JET EXHAUST

1202 2805 3301  
UP HOT JET EXHAUST  
RT BASE HEATING  
EXHAUST GASES  
JET AIRCRAFT NOISE  
JET BLAST EFFECTS  
JET ENGINES  
JET THRUST  
ROCKET EXHAUST

## JET FLAMES

USE FLAMES  
JET FLOW  
JET FLAPS  
0101 0104  
UP JET AUGMENTED WING FLAPS  
BT #AIRFOILS  
#CONTROL SURFACES  
PLAPS (CONTROL SURFACES)  
RT H-126 AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
SPLIT FLAPS  
TRAILING-EDGE FLAPS  
WING FLAPS

## JET FLIGHT

USE #JET AIRCRAFT  
JET FLOW  
0101 1201 1202 1203  
UP ANNULAR JETS  
HOT JETS  
JET FLAMES  
LAMINAR JETS  
REACTION JETS  
NT AIR JETS  
PERIPHERAL JET FLOW  
SUPERSONIC JET FLOW  
BT #FLUID FLOW  
RT FLUID JETS  
FREE BOUNDARIES  
FREE JETS  
GAS STREAMS  
HYDRAULIC JETS  
INJECTORS  
JET AMPLIFIERS  
JET BOUNDARIES  
JET MIXING FLOW  
JETS  
NOZZLE FLOW  
TWO DIMENSIONAL JETS  
VAPOR JETS  
WALL JETS

## JET FUELS

USE JET ENGINE FUELS  
JET IMPINGEMENT  
0201 1202  
BT IMPINGEMENT  
RT ABLATION

# JET STREAMS (METEOROLOGY)

## BASE HEATING

JET LIFT  
0201 0209  
BT #AERODYNAMIC CHARACTERISTICS  
#AERODYNAMIC FORCES  
#DYNAMIC CHARACTERISTICS  
LIFT  
RT #DISTRIBUTION (PROPERTY)  
JET PROPULSION  
JET THRUST  
JET MIXING FLOW  
1202 1203  
BT #FLUID FLOW  
RT FLUID JETS  
FREE BOUNDARIES  
FUEL INJECTION  
INJECTORS  
JET FLOW  
JETS  
MIXING  
TWO DIMENSIONAL JETS

## JET NOISE

USE JET AIRCRAFT NOISE  
JET NOZZLES  
0201 1201 1202 3009  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
-BELOW)

RT CARBURATORS  
CONICAL NOZZLES  
EXHAUST DIFFUSERS  
EXHAUST NOZZLES  
FUEL INJECTION  
INJECTORS  
JET AMPLIFIERS  
JET ENGINES  
SKIRTS

## JET PILOTS

USE AIRCRAFT PILOTS

## JET PLUMES

USE PLUMES

## JET PROPULSION

2805  
UP JET DRIVE  
BT #PROPULSION  
RT AIRCRAFT ENGINES  
CHEMICAL PROPULSION  
HELICOPTER PROPELLER DRIVE  
#JET AIRCRAFT  
JET ENGINE FUELS  
JET ENGINES  
JET LIFT  
JET THRUST  
MARINE PROPULSION  
ROCKET ENGINES  
SQUID PROJECT  
TURBINES

## JET PROVOST AIRCRAFT

0207  
UP HUNTING P-84 AIRCRAFT  
P-84 AIRCRAFT  
BT #BAC AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
TRAINING AIRCRAFT

## JET PUMPS

1202 1203 1501  
(EXCLUDES DEVICES USING A LIQUID OR  
GAS TO INDUCE MOVEMENT OF A GAS SUCH  
AS AIR EJECTORS)  
BT #PUMPS  
RT EJECTORS  
FUEL PUMPS  
JETS  
PUMPING  
TURBINE PUMPS  
VACUUM PUMPS

## JET STAR AIRCRAFT

USE C-140 AIRCRAFT

## JET STREAMS (METEOROLOGY)

1301 1302 2003  
UP JET AIRSTREAMS  
BT AIR CURRENTS  
AIR FLOW  
#FLUID FLOW  
GAS FLOW  
#WIND (METEOROLOGY)  
WINDS ALOFT  
RT AIR JETS  
ATMOSPHERIC CIRCULATION  
CIRCUMPOLAR WESTERLIES  
CLEAR AIR TURBULENCE

## JET THRUST

COANDA EFFECT  
FLUID JETS  
FREE BOUNDARIES  
TURBULENT JETS

JET THRUST  
0201 1203 2805

UP REACTION JET ATTITUDE CONTROL  
REACTION JETS

BT #THRUST  
RT HIGH THRUST  
JET ENGINES  
JET EXHAUST  
JET LIFT  
JET PROPULSION  
LOW THRUST  
MICROTHRUST  
ROCKET THRUST  
STATIC THRUST  
THRUST LOADS  
VARIABLE THRUST

JET VANES  
0104 1202 1203 1504 2806 2807

BT #CONTROL SURFACES  
GUIDE VANES  
#VANES  
RT #AIRFOILS  
THRUST VECTOR CONTROL  
WALL JETS

JETAVATORS  
USE GUIDE VANES

JETS  
0201 0203 0204 0205 0207 0209 1203 2805  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT AIR JETS  
FLUID JETS  
FREE JETS  
GAS JETS  
INJECTORS  
#JET AIRCRAFT  
JET FLOW  
JET MIXING FLOW  
JET PUMPS  
PLASMA JETS  
SPRAYERS  
TURBULENT JETS  
TWO DIMENSIONAL JETS  
WALL JETS

JETSTREAM AIRCRAFT  
0204

BT #COMMERCIAL AIRCRAFT  
GRUMMAN AIRCRAFT  
#JET AIRCRAFT  
PASSENGER AIRCRAFT

RT AIRCRAFT

JETTISON SYSTEMS  
0202 0303 3104

RT BAILOUT  
EJECTION  
ESCAPE (ABANDONMENT)  
ESCAPE SYSTEMS  
JETTISONING  
SYSTEMS  
WING TANKS

JETTISONING  
0201 0203

RT BAILOUT  
DISPOSAL  
DUMPING  
EJECTION  
EMPTYING  
ESCAPE (ABANDONMENT)  
EXPULSION  
JETTISON SYSTEMS  
SPILLING

JP 101 AIRCRAFT  
USE P-101 AIRCRAFT

JIGS  
1504 3203

BT POSITIONING DEVICES (MACHINERY)  
RT CLAMPS  
PIXTURES  
HOLDERS  
MECHANICAL DEVICES  
#TOOLS

JIM DANDY 2 REENTRY BODY  
3105

BT #REENTRY VEHICLES

JINDIVIK TARGET AIRCRAFT  
0207 3401

BT DRONE AIRCRAFT

#DRONE VEHICLES  
#JET AIRCRAFT  
MONOPLANES  
#PILOTLESS AIRCRAFT  
TARGET DRONE AIRCRAFT  
#TARGETS

JITTER  
USE #VIBRATION

JOBS  
USE TASKS

JODRELL BANK OBSERVATORY  
1412 3001

BT #OBSERVATORIES  
RT ASTRONOMICAL OBSERVATORIES  
GROUND STATIONS  
RADIO TELESCOPES  
TRACKING STATIONS

JOHNSTON ISLAND  
1305

BT #ISLANDS  
PACIFIC ISLANDS

JOINING  
1504 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UP INTERCONNECTION  
LINKING

RT ADHESION  
ADHESIVE BONDING  
ASSEMBLING  
BINDING  
#BONDING  
BRAZING  
COLD WORKING  
COUPLINGS  
CROSSLINKING  
FITTING  
FUSION (MELTING)  
#JOINTS (JUNCTIONS)  
LOCKING  
MOORING  
MOUNTING  
POSITIONING  
RETAINING  
RIVETING  
SEALING  
SEWING  
SOLDERING  
SPLICING  
ULTRASONIC SOLDERING  
#WELDING  
YOKES

JOINTS (ANATOMY)  
0404 0405 0506 0508

NT ELBOW (ANATOMY)  
KNEE (ANATOMY)  
WRIST

BT #ANATOMY  
MUSCULOSKELETAL SYSTEM

RT ARTHRITIS  
BONES  
CONNECTIVE TISSUE  
PLEXORS  
LIGAMENTS  
SHOULDER

#JOINTS (JUNCTIONS)  
1504 1507 3202

UP CONNECTIONS  
SHANKS

NT BUTT JOINTS  
LAP JOINTS  
METAL JOINTS  
RIVETED JOINTS  
SEAMS (JOINTS)  
SOLDERED JOINTS  
SPOT WELDS  
WELDED JOINTS

RT ADAPTERS  
ADHESIVES  
BALLS  
BARRIER LAYERS  
#BONDING  
CLOSURES  
CONNECTORS  
CORNERS  
COUPLINGS  
#FASTENERS  
FILLETS  
FITTINGS  
JOINING  
JUNCTIONS

## NASA TREASURY (ALPHABETICAL LISTING)

LINKAGES  
METAL BONDING  
SLEEVES  
#STRUCTURAL MEMBERS  
SWIVELS  
UNIONS (CONNECTORS)

JORDAN  
1305

RT NATIONS

JORDAN FORM  
1902

BT #ALGEBRA  
MATRICES (MATHEMATICS)  
VECTOR SPACES  
RT EIGENVALUES  
LINEAR TRANSFORMATIONS  
TENSORS

JOSEPHSON JUNCTIONS  
2309 2602 2603

BT SEMICONDUCTOR JUNCTIONS  
RT SUPERCONDUCTIVITY

JOUKOWSKI TRANSFORMATION  
0101 0102 1202 1203

RT #AIRFOIL PROFILES  
COMPLEX VARIABLES  
COORDINATE TRANSFORMATIONS  
KUTTA-JOUKOWSKI CONDITION  
THEODORSEN TRANSFORMATION

JOULE HEATING  
USE OHMIC DISSIPATION  
RESISTANCE HEATING

JOULE-THOMSON EFFECT  
1203 3304

RT CRYOGENICS  
ENTHALPY  
GAS EXPANSION  
GAS FLOW  
#KINETIC THEORY  
OHMIC DISSIPATION  
#THERMODYNAMIC PROPERTIES  
THERMODYNAMICS  
THROTTLING

JOURNAL BEARINGS  
1501 1504 3404

BT #BEARINGS  
RT ANTIFRICTION BEARINGS

JOURNALS  
1504 2801 2805 3405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT NEWS MEDIA  
PERIODICALS  
SHAFTS (MACHINE ELEMENTS)

JOURNALS (DOCUMENTS)  
USE PERIODICALS

JOURNALS (SHAFTS)  
USE SHAFTS (MACHINE ELEMENTS)

JOURNEYMAN ROCKET VEHICLE  
0704 1406 2901 3108

BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
SOUNDING ROCKETS

RT ARGO D-8 ROCKET VEHICLE  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
TX-354 ENGINE  
XM-33 ENGINE

JP-4 JET FUEL  
2701

BT CHEMICAL FUELS  
#FUELS  
HYDROCARBON FUELS  
JET ENGINE FUELS

RT JP-6 JET FUEL  
JP-8 JET FUEL  
RP-1 ROCKET PROPELLANTS

JP-5 JET FUEL  
2701

BT CHEMICAL FUELS  
#FUELS  
HYDROCARBON FUELS  
JET ENGINE FUELS

RT CHEMICAL FUELS  
#FUELS  
JET ENGINE FUELS

JP-6 JET FUEL  
2701

BT CHEMICAL FUELS  
#FUELS  
HYDROCARBON FUELS  
JET ENGINE FUELS

## NASA THESAURUS (ALPHABETICAL LISTING)

J93-HJ280G ENGINE

RT JP-4 JET FUEL  
JP-8 JET FUEL  
JP-8 JET FUEL  
2701  
BT CHEMICAL FUELS  
#FUELS  
HYDROCARBON FUELS  
JET ENGINE FUELS  
RT JP-4 JET FUEL  
JP-6 JET FUEL  
KEROSENE  
JUDGMENTS  
3403 3404 3406  
RT DECISION MAKING  
DECISIONS  
LEGAL LIABILITY  
PENALTIES  
JUDI-DART ROCKET  
2808 3009 3108 3409  
BT SONDES  
SOUNDING ROCKETS  
RT ROCKET SOUNDING  
JUICES  
0403  
RT CREATIVE  
JUMPERS  
0902 0905  
RT CONNECTORS  
SHORT CIRCUITS  
TERMINALS  
#WIRE  
JUNCTION DIODES  
0906 2304  
BT #DIODES  
#ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
RT BARRIER LAYERS  
GERMANIUM DIODES  
JUNCTION TRANSISTORS  
TUNNEL DIODES  
VARACTOR DIODES  
JUNCTION TRANSISTORS  
0906 2304  
BT #ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
TRANSISTORS  
RT BARRIER LAYERS  
EPITAXY  
JUNCTION DIODES  
JUNCTIONS  
PHOTOTRANSISTORS  
THYRISTORS  
JUNCTIONS  
0906 1507 1601 2602 2603 3303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONNECTORS  
INTERSECTIONS  
#JOINTS (JUNCTIONS)  
JUNCTION TRANSISTORS  
P-N-P-N JUNCTIONS  
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SEMICONDUCTOR JUNCTIONS  
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3103  
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#LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT EXPLORER SATELLITES  
JUPITER C ROCKET VEHICLE  
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SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
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3101 3103  
BT JUNO LAUNCH VEHICLES  
#LAUNCH VEHICLES  
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#ROCKET VEHICLES  
RT EXPLORER S-46 SATELLITE  
EXPLORER 11 SATELLITE  
JUPITER MISSILE  
LIQUID PROPELLANT ROCKET ENGINES  
PIONEER 3 SPACE PROBE  
PIONEER 4 SPACE PROBE  
PIONEER 6 SPACE PROBE  
PIONEER 7 SPACE PROBE  
PIONEER 8 SPACE PROBE  
PIONEER SPACE PROBES  
SERGEANT MISSILES  
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JUNO 5 LAUNCH VEHICLE  
3103  
BT JUNO LAUNCH VEHICLES  
#LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT BOOSTER ROCKET ENGINES  
H-1 ENGINE  
LIQUID PROPELLANT ROCKET ENGINES  
H-1 ENGINE  
JUNO LAUNCH VEHICLES  
3101 3103  
RT JUNO 1 LAUNCH VEHICLE  
JUNO 2 LAUNCH VEHICLE  
JUNO 5 LAUNCH VEHICLE  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
JUPITER (PLANET)  
3008 3009  
BT #CELESTIAL BODIES  
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RT JUPITER ATMOSPHERE  
JUPITER PROBES  
JUPITER RED SPOT  
JUPITER ATMOSPHERE  
3008 3009  
BT #ENVIRONMENTS  
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3101 3103 3401  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
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SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
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3101 3401  
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MISSILES  
#MISSILES  
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RT JUNO 2 LAUNCH VEHICLE  
JUPITER C ROCKET VEHICLE  
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JUPITER PROBES  
3007 3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RT JUPITER (PLANET)  
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3007 3101 3409  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT #LAUNCH VEHICLES  
JUPITER RED SPOT  
3008 3009  
RT JUPITER (PLANET)  
PLANETARY SURFACES  
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#SURFACE PROPERTIES  
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J93-HJ280G ENGINE  
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**K LINES**  
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 BT ELECTROMAGNETIC SPECTRA  
 H LINES  
 LINE SPECTRA  
 RADIATION SPECTRA  
 #SPECTRA  
 RT ABSORPTION SPECTRA  
 EMISSION SPECTRA  
 H LINES

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 2403 2405  
 RT CHARGED PARTICLES  
 KAONS  
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**KA BAND**  
 USE EXTREMELY HIGH FREQUENCIES  
**KA-6 SAILPLANES**  
 0205  
 UP SCHLEICHER KA-6 SAILPLANE  
 BT #GLIDERS

**KAG-3 GROUND EFFECT MACHINE**  
 0205  
 UP KAWASAKI KAG-3 GROUND EFFECT  
 MACHINE  
 BT GROUND EFFECT MACHINES  
 RT WATER TAKEOFF AND LANDING AIRCRAFT

**KAKUTANI THEOREM**  
 1902 2308  
 BT #THEOREMS  
 RT LATTICES (MATHEMATICS)  
 #STOCHASTIC PROCESSES  
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 0701 0707 0905 2104  
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 #OPTIMIZATION  
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 0603 3005  
 BT #ALLOYS  
 #MINERALS  
 NICKEL ALLOYS  
 RT IRON ALLOYS  
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**KAMAN AIRCRAFT**  
 0206 0207  
 UP KAMAN MILITARY HELICOPTERS  
 NT H-43 HELICOPTER  
 HH-43 HELICOPTER  
 UH-2 HELICOPTER  
 RT AIRCRAFT

**KAMAN MILITARY HELICOPTERS**  
 USE KAMAN AIRCRAFT  
**KAMAN UH-2A HELICOPTER**  
 USE UH-2 HELICOPTER

**KANSAS**  
 1305  
 BT UNITED STATES OF AMERICA

**KAOLINITE**  
 1801 1806  
 BT #ALUMINUM COMPOUNDS  
 ALUMINUM SILICATES  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 RT ION EXCHANGING

**KAON PRODUCTION**  
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 BT PARTICLE PRODUCTION  
 RT KAONS  
 #PARTICLE ACCELERATORS

**KAONS**  
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 BT BOSONS  
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 NUCLEAR PARTICLES  
 #PARTICLES  
 RT CHARGED PARTICLES  
 K-MESONS  
 KAON PRODUCTION

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**KAPITZA RESISTANCE**  
 0604  
 RT RESISTANCE

**KAPOETA ACHONDRITE**  
 3005  
 BT ACHONDRITES  
 #CELESTIAL BODIES  
 METEORITES  
 STONY METEORITES

**KAPPA 6 ROCKET VEHICLE**  
 3106  
 BT KAPPA ROCKET VEHICLES  
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 #ROCKET VEHICLES  
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 RT SOLID PROPELLANT ROCKET ENGINES

**KAPPA 8 ROCKET VEHICLE**  
 3103 3106  
 BT KAPPA ROCKET VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT SOLID PROPELLANT ROCKET ENGINES

**KAPPA 9 ROCKET VEHICLE**  
 3106  
 BT KAPPA ROCKET VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT SOLID PROPELLANT ROCKET ENGINES

**KAPPA ROCKET VEHICLES**  
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 NT KAPPA 6 ROCKET VEHICLE  
 KAPPA 8 ROCKET VEHICLE  
 KAPPA 9 ROCKET VEHICLE  
 BT MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
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 RT SOLID PROPELLANT ROCKET ENGINES

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 RT FILMS  
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 1902 2311  
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 #EXPANSION

**KARL FISCHER REAGENT**  
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 PYRIDINES  
 QUANTITATIVE ANALYSIS

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 1202 1203 1204  
 BT AXISYMMETRIC FLOW  
 #FLUID FLOW  
 RT ROTATING DISKS  
 ROTATING FLUIDS

**KARMAN VORTEX STREET**  
 1202  
 BT VORTEX STREETS  
 RT AEOLIAN TONES  
 SUBSONIC FLOW  
 VON KARMAN EQUATION  
 VORTICITY EQUATIONS.

**KAWASAKI AIRCRAFT**  
 0205  
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**KAWASAKI KAG-3 GROUND EFFECT MACHINE**  
 USE KAG-3 GROUND EFFECT MACHINE  
**KAWASAKI KH-4 HELICOPTER**  
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**KC-130 AIRCRAFT**  
 USE C-130 AIRCRAFT  
**KC-135 AIRCRAFT**  
 USE C-135 AIRCRAFT

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 3202 3203  
 BT HYDROFOILS  
 RT BOATS  
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 1808 1809 1810  
 RT COPOLYMERS  
 POLYMERS

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**KENTUCKY**  
 1305  
 BT UNITED STATES OF AMERICA

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 1901 2308 3001  
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 #LAWS  
 ORBITAL MECHANICS  
 SPACE MECHANICS

**KERATINS**  
 0402 0403 0409  
 BT #PROTEINS  
 RT HAIR  
 WOOL

**KERATITIS**  
 0401 0405 0408  
 BT #DISEASES

**KERNEL FUNCTIONS**  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
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**KEROSENE**  
 1808 2701  
 RT FUEL OILS  
 #FUELS  
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 JET ENGINE FUELS  
 JP-8 JET FUEL  
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 0412 1808  
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 1601 2306 2402  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ELECTRO-OPTICAL EFFECT  
 KERR ELECTROOPTICAL EFFECT  
 KERR MAGNETOOPTICAL EFFECT  
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**KERR ELECTROOPTICAL EFFECT**  
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 #ELECTROMAGNETIC RADIATION  
 KERR CELLS  
 KERR EFFECTS  
 KERR MAGNETOOPTICAL EFFECT  
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 KERR EFFECTS  
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**KESTREL AIRCRAFT**  
 USE P-1127 AIRCRAFT

**KETENES**  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 RT KETONES

**KETONES**  
 0602 0603 1808  
 NT ACETONE  
 ACETYLACETONE

## KEYING

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CAMPOR  
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RT MORSE CODE  
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TELETYPEWRITERS  
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0206  
UF KAWASAKI KH-4 HELICOPTER  
BT GENERAL AVIATION AIRCRAFT  
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ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
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BT #DISEASES  
RT CHOLERA  
KIDNEYS  
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BT #ANATOMY  
ORGANS  
#VISCERA  
RT RENAL FUNCTION  
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UROLOGY  
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1412 3001  
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#TELESCOPES  
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USE BIOTITE  
PERIDOTITE  
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1202 2308  
NT BODY KINEMATICS  
RT ACCELERATION (PHYSICS)  
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#EQUATIONS OF MOTION  
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BETHE-SALPETER EQUATION  
EINSTEIN EQUATIONS  
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2308 2311  
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EYRING THEORY  
MIXING LENGTH FLOW THEORY  
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BT BINARY FLUIDS  
BOLTZMANN DISTRIBUTION  
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(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED

## NASA THESAURUS (ALPHABETICAL LISTING)

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#NUCLEAR REACTORS  
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BT GAS COOLED REACTORS  
KIWI B REACTORS  
KIWI REACTORS  
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NUCLEAR POWER REACTORS  
#NUCLEAR REACTORS  
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KIWI B-4 REACTOR  
BT GAS COOLED REACTORS  
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#NUCLEAR REACTORS  
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# NASA THESAURUS (ALPHABETICAL LISTING)

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 BT INDEXES (DOCUMENTATION)  
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L-27 AIRCRAFT  
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L-28 AIRCRAFT  
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L-29 AIRCRAFT  
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L-1011 AIRCRAFT  
0204  
BT #COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
LOCKHEED AIRCRAFT  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
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L-1649 AIRCRAFT  
0204  
UF LOCKHEED L-1649 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
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L-2000 AIRCRAFT  
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L-29 JET TRAINER  
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UF DELFIN AIRCRAFT  
L-29 AIRCRAFT  
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LACTIC ACID  
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BT #ACIDS  
#ALIPHATIC COMPOUNDS  
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LACTOSE  
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BT #ALIPHATIC COMPOUNDS  
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0402 0404 0409  
RT LICHENS  
#PLANTS (BOTANY)

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BT #COORDINATES  
RT #CLASSICAL MECHANICS  
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BT HYPOTHESES  
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1310 1306  
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1412  
BT CAMERAS  
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BT #ELASTIC WAVES  
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3106 3108 3409  
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BT #FUNCTIONS (MATHEMATICS)  
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1202 1203 1902  
BT #ANALYSIS (MATHEMATICS)  
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BOUNDARY LAYERS  
RT BOUNDARY LAYER COMBUSTION  
BOUNDARY LAYER TRANSITION  
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UF LAMINAR PLANES  
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BT #FLUID FLOW  
RT AERODYNAMICS  
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 VISCOUS FLOW  
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 0101 0102 1202  
 BT #AIRFOILS  
 RT LAMINAR BOUNDARY LAYER  
 LAMINAR FLOW CONTROL  
 USE BOUNDARY LAYER CONTROL  
 LAMINAR BOUNDARY LAYER  
 LAMINAR HEAT TRANSFER  
 1202 1203 3303  
 BT HEAT TRANSFER  
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 #TRANSMISSION  
 RT CONDUCTIVE HEAT TRANSFER  
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 LAMINAR FLOW  
 LAMINAR MIXING  
 1202 1203  
 BT MIXING  
 RT FLUID INJECTION  
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 0101 1110 1202 1203  
 BT #WAKES  
 RT AIRCRAFT WAKES  
 LAMINAR MIXING  
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 LAMINATED MATERIALS  
 USE LAMINATES  
 LAMINATES  
 1504 2311 3202  
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 MULTILAYER STRUCTURES  
 NT BORAL  
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 BT #COMPOSITE MATERIALS  
 #COMPOSITE STRUCTURES  
 RT #BONDING  
 CLADDING  
 #COATINGS  
 FABRICS  
 FILAMENT WINDING  
 FILMS  
 FORMICA  
 HONEYCOMB STRUCTURES  
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 LAYERS  
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 METAL BONDING  
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 LAND  
 1303 1304 1308  
 RT DESERTS  
 LAND USE  
 #SITES  
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 1306  
 UP ICE SHELVES  
 BT EARTH RESOURCES  
 #ICE  
 RT ANTARCTIC REGIONS  
 GLACIERS  
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 LAND USE  
 1303 1306 3404  
 RT AIRPORT PLANNING  
 CONSERVATION  
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 EARTH RESOURCES  
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 LAND  
 URBAN DEVELOPMENT  
 URBAN PLANNING  
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 LANDAU DAMPING  
 2403 2405 2502  
 BT DAMPING  
 RT ELECTRON PLASMA  
 LANDAU FACTOR  
 PHASE VELOCITY  
 SPACE CHARGE  
 LANDAU FACTOR  
 2403.2405  
 RT LANDAU DAMPING  
 LANDAU-GINSBURG EQUATIONS  
 1902  
 RT EQUATIONS  
 QUANTUM ELECTRODYNAMICS  
 SUPERCONDUCTIVITY  
 #LANDING  
 0101 0201 0203 1102 3009 3105 3407  
 NT AIRCRAFT LANDING  
 BLIND LANDING  
 CRASH LANDING  
 DITCHING (LANDING)  
 GLIDE LANDINGS  
 HORIZONTAL SPACECRAFT LANDING  
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 PLANETARY LANDING  
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 APPROACH  
 ARRIVALS  
 #GUIDANCE (MOTION)  
 INSTRUMENT FLIGHT RULES  
 INSTRUMENT LANDING SYSTEMS  
 LANDING SIMULATION  
 #MANEUVERS  
 RUNWAYS  
 TAKEOFF  
 VISUAL FLIGHT  
 #LANDING AIDS  
 0202 0203 1101 1402 1410 2101 2103  
 UP LANDING SYSTEMS  
 NT AIRPORT BEACONS  
 AIRPORT LIGHTS  
 APPROACH INDICATORS  
 ARRESTING GEAR  
 AUTOMATIC LANDING CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

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 LANDING INSTRUMENTS  
 LANDING RADAR  
 MICROVISION LANDING AID  
 RUNWAY LIGHTS  
 RT AIDS  
 AIR TRAFFIC CONTROL  
 AIRCRAFT EQUIPMENT  
 #AIRCRAFT INSTRUMENTS  
 AIRCRAFT LANDING  
 AIRCRAFT SAFETY  
 AIRPORT TOWERS  
 AIRPORTS  
 ANTISKID DEVICES  
 APPROACH  
 APPROACH CONTROL  
 AUTOMATIC PILOTS  
 #GROUND BASED CONTROL  
 GROUND SUPPORT EQUIPMENT  
 HEAD-UP DISPLAYS  
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 INSTRUMENT APPROACH  
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 MILITARY AIR FACILITIES  
 NATIONAL AVIATION SYSTE  
 #NAVIGATION AIDS  
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 RADAR APPROACH CONTROL  
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 RUNWAYS  
 SAFETY DEVICES  
 SOLAR COMPASSES  
 LANDING GEAR  
 0202 0203 0303  
 UP RETRACTABLE LANDING GEAR  
 RT AIRCRAFT PARTS  
 AIRCRAFT TIRES  
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 BICYCLE  
 #BRAKES (FOR ARRESTING MOTION)  
 CARRIAGES  
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 FLOATS  
 GEAR  
 HYDROFOILS  
 #LANDING AIDS  
 NOSE WHEELS  
 RETRACTABLE EQUIPMEN  
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 SKIS  
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 LANDING INSTRUMENTS  
 0202 1402 1410  
 UP AIRCRAFT LANDING INSTRUMENTS  
 NT APPROACH INDICATORS  
 BT #LANDING AIDS  
 RT AIR TRAFFIC CONTROL  
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 #AUTOMATIC CONTROL  
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 LANDING LOADS  
 0201 3201 3203  
 BT DYNAMIC LOADS  
 #LOADS (FORCES)  
 TRANSIENT LOADS  
 RT DECELERATION  
 IMPACT LOADS  
 LANDING SPEED  
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 LANDING MODULES  
 3004 3110 3201  
 NT LSSH  
 LUNAR LANDING MODULES  
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 MARS EXCURSION MODULE  
 BT #MODULES

# NASA THESAURUS (ALPHABETICAL LISTING)

#SOFT LANDING SPACECRAFT  
 #SPACECRAFT COMPONENTS  
 SPACECRAFT MODULES  
 RT APOLLO SPACECRAFT  
 #INTERPLANETARY SPACECRAFT  
 #LAUNCH VEHICLES  
 #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 #REENTRY VEHICLES  
 #REUSABLE SPACECRAFT  
 #SPACE CAPSULES  
 LANDING RADAR  
 0202 0203 0705 1101 1102 1402 1410  
 2101 2103  
 BT #LANDING AIDS  
 #RADAR  
 RT AIR TRAFFIC CONTROL  
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 APPROACH CONTROL  
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 LANDING SIMULATION  
 0804 1107 1108  
 BT #SIMULATION  
 RT ALTITUDE SIMULATION  
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 #LANDING  
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 LANDING SITES  
 3006 3007 3008  
 NT LUNAR LANDING SITES  
 BT #SITES  
 RT HELIPORTS  
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 RUNWAYS  
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 LANDING SPEED  
 0203 3102 3103 3105  
 BT #RATES (PER TIME)  
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 RT HIGH SPEED  
 LANDING LOADS  
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 LANDING SYSTEMS  
 USE #LANDING AIDS  
 LANDMARKS  
 1303  
 RT TERRAIN  
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 USE TERRAIN  
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 LANGEVIN FORMULA  
 1902 2305 2401  
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 LANGMUIR PROBES  
 USE ELECTROSTATIC PROBES  
 LANGUAGE PROGRAMMING  
 0802 3405  
 BT COMPUTER PROGRAMMING  
 RT #DATA PROCESSING  
 #LANGUAGES  
 MACHINE TRANSLATION  
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 #LANGUAGES  
 0408 0410 0802 3405 0702  
 RT ALGOL  
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 #COMMUNICATION THEORY  
 GRAMMARS  
 LANGUAGE PROGRAMMING  
 #LINGUISTICS  
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 PHONEMICS  
 PHONETICS  
 SEMANTICS  
 #SPEECH  
 SYMBOLS  
 SYNTAX  
 TRANSLATING  
 VERBAL COMMUNICATION  
 VOWELS  
 LANTHANIDE SERIES METALS  
 USE RARE EARTH ELEMENTS  
 LANTHANUM  
 0603 1703  
 NT LANTHANUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS  
 LANTHANUM ALLOYS  
 0603 1701 1703  
 BT #ALLOYS  
 LANTHANUM CHLORIDES  
 0603 1804  
 BT CHLORIDES  
 CHLORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 LANTHANUM COMPOUNDS  
 METAL HALIDES  
 LANTHANUM COMPOUNDS  
 0603 1804 1808  
 NT LANTHANUM CHLORIDES  
 LANTHANUM FLUORIDES  
 LANTHANUM OXIDES  
 LANTHANUM TELLURIDES  
 RT METAL COMPOUNDS  
 LANTHANUM FLUORIDES  
 0603 1804  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
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 #HALOGEN COMPOUNDS  
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 LANTHANUM ISOTOPES  
 2406  
 UP LANTHANUM 140  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 LANTHANUM  
 NUCLIDES  
 RARE EARTH ELEMENTS  
 LANTHANUM OXIDES  
 0603 1804  
 BT #CHALCOGENIDES  
 LANTHANUM COMPOUNDS  
 METAL OXIDES  
 OXIDES  
 LANTHANUM TELLURIDES  
 0603 1804  
 BT #CHALCOGENIDES  
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 1305  
 RT ASIA  
 NATIONS  
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 1504 1507  
 BT #JOINTS (JUNCTIONS)  
 RT BUTT JOINTS  
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 SOLDERED JOINTS  
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 1902 2311  
 RT EQUATIONS  
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 LAPLACE OPERATORS  
 USE LAPLACE TRANSFORMATION  
 LAPLACE TRANSFORMATION  
 1902  
 UP LAPLACE OPERATORS  
 Z TRANSFORM  
 BT #ANALYSIS (MATHEMATICS)  
 FUNCTIONAL ANALYSIS  
 #FUNCTIONS (MATHEMATICS)  
 INTEGRAL TRANSFORMATIONS  
 TRANSFORMATIONS (MATHEMATICS)  
 RT DIFFERENTIAL EQUATIONS  
 LAPLACE EQUATION  
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 LAPSE RATE  
 1301 1302 1307 1308 2003  
 RT HUMIDITY  
 #TEMPERATURE  
 TEMPERATURE INVERSIONS  
 TEPHIGRAMS  
 LARA AIRCRAFT  
 USE COIN AIRCRAFT  
 LARGE APERTURE SEISMIC ARRAY  
 1306 1308 1406  
 BT #ARRAYS  
 RT EARTH MOVEMENTS  
 EARTHQUAKES  
 #MEASURING INSTRUMENTS  
 SEISMIC WAVES  
 SEISMOLOGY  
 LARGE SCALE INTEGRATION  
 0902 1001 1002  
 UP LSI  
 BT INTEGRATED CIRCUITS  
 MICROELECTRONICS  
 MICROMINIATURIZATION  
 MOLECULAR ELECTRONICS  
 PRINTED CIRCUITS  
 RT ELECTRONIC PACKAGING  
 MEDIUM SCALE INTEGRATION  
 LARGOS SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEODETIC SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 RT EXPLORER 29 SATELLITE  
 EXPLORER 36 SATELLITE  
 GEOS-C SATELLITE  
 GEOS 1 SATELLITE  
 GEOS 2 SATELLITE  
 LARMOR PRECESSION  
 2307 2402 2403  
 BT #GYRATION  
 PRECESSION  
 RT CYCLOTRON FREQUENCY  
 CYCLOTRON RADIATION  
 LARVAE  
 0402 0404  
 RT INSECTS  
 PUPA  
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 LARYNX  
 0404 0405  
 NT GLOTTIS  
 RT CARTILAGE  
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 LASER ALTIMETERS  
 1410 1601 2104 2310  
 BT ALTIMETERS  
 #MEASURING INSTRUMENTS  
 #NAVIGATION AIDS  
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 #SPACECRAFT INSTRUMENTS  
 RT ALTITUDE CONTROL  
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 OPTICAL RADAR  
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 USE OPTICAL COMMUNICATION  
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 1504 1601  
 BT #HEATING  
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 LASER MODES  
 LASER OUTPUTS  
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## LASER MATERIALS

## LASER MATERIALS

1601  
RT LASER OUTPUTS  
LASER MODES  
1601  
BT #MODES  
RT HELIUM-NEON LASERS  
LASER HEATING  
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LASER OUTPUTS  
0710 1601 2306 2310 2402  
BT OUTPUT  
RT COHERENCE  
COHERENT LIGHT  
HELIUM-NEON LASERS  
LASER HEATING  
LASER MATERIALS  
LASER MODES  
LASER OUTPUTS  
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PULSE DURATION  
RADIANT FLUX DENSITY  
WAVELENGTHS  
LASER RADAR  
USE OPTICAL RADAR  
LASER RANGE FINDERS  
1406 1600  
BT DISTANCE MEASURING EQUIPMENT  
#MEASURING INSTRUMENTS  
OPTICAL RANGE FINDERS  
RANGE FINDERS  
RT LASER RANGER/TRACKER  
#NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
LASER RANGER/TRACKER  
2310 0709 1109 2310  
RT LASER RANGE FINDERS  
LASERS  
1601  
UP FABRY-PEROT LASERS  
OPTICAL GENERATORS  
OPTICAL MASERS  
OPTICAL RESONATORS  
RT ARGON LASERS  
CARBON DIOXIDE LASERS  
CARBON MONOXIDE LASERS  
CHEMICAL LASERS  
GALLIUM ARSENIDE LASERS  
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HELIUM-NEON LASERS  
INFRARED LASERS  
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LIQUID LASERS  
ORGANIC LASERS  
PULSED LASERS  
Q SWITCHED LASERS  
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RING LASERS  
RUBY LASERS  
SEMICONDUCTOR LASERS  
SOLID STATE LASERS  
BT #STIMULATED EMISSION DEVICES  
RT #AMPLIFIERS  
BEAM SWITCHING  
COHERENCE  
COHERENT ELECTROMAGNETIC RADIATION  
COHERENT LIGHT  
GARNETS  
HOLOGRAPHY  
INTERPLANETARY COMMUNICATION  
KERR ELECTROOPTICAL EFFECT  
LASER ALTIMETERS  
LIGHT AMPLIFIERS  
LIGHT BEAMS  
LIGHT MODULATION  
LIGHT SOURCES  
LIGHT TRANSMISSION  
LUNAR COMMUNICATION  
MASERS  
MOLECULAR OSCILLATORS  
OPTICAL COMMUNICATION  
OPTICAL DATA PROCESSING  
OPTICAL PUMPING  
PHOTODIODES  
PULSE GENERATORS  
PULSED RADIATION  
QUANTUM AMPLIFIERS  
RESONATORS  
SEWARMONT POLARISCOPES  
SOLID STATE DEVICES  
SPACE COMMUNICATION

STIMULATED EMISSION  
THRESHOLD CURRENTS  
TRANSIENT OSCILLATIONS  
TRAVELING WAVE MODULATION  
LASV  
USE F-111 AIRCRAFT  
LATCHES  
1504  
RT #FASTENERS  
HOLDERS  
LINKAGES  
PINS  
LATENCY  
USE REACTION TIME  
LATENESS  
3406 3408  
RT DELAY  
LATERAL CONTROL  
0101 0104 0201 3203  
UP LATERALIZATION  
MISSILE ROLL CONTROL  
ROLL CONTROL  
BT #ATTITUDE CONTROL  
RT AILERONS  
AIRCRAFT CONTROL  
ALTITUDE CONTROL  
#AUTOMATIC CONTROL  
DIRECTIONAL CONTROL  
ELEVONS  
HELICOPTER CONTROL  
LATERAL OSCILLATION  
LATERAL STABILITY  
LONGITUDINAL CONTROL  
MANUAL CONTROL  
MISSILE CONTROL  
ROLL  
SATELLITE ATTITUDE CONTROL  
SATELLITE CONTROL  
LATERAL OSCILLATION  
0201 2102 2311  
UP SNAKING  
RT DIRECTIONAL STABILITY  
LATERAL CONTROL  
LATERAL STABILITY  
ROLL  
TRANSVERSE OSCILLATION  
TURNING FLIGHT  
YAW  
YAWING MOMENTS  
LATERAL STABILITY  
0101 3203 3408  
UP DIHEDRAL EFFECT  
LATERALITY  
BT ATTITUDE STABILITY  
#DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
#STABILITY  
RT #AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
DIHEDRAL ANGLE  
DIRECTIONAL STABILITY  
FLOW STABILITY  
HANDEDNESS  
HOVERING STABILITY  
LATERAL CONTROL  
LATERAL OSCILLATION  
LONGITUDINAL STABILITY  
ROLL  
ROLLING MOMENTS  
ROTARY STABILITY  
SPACECRAFT STABILITY  
TURNING FLIGHT  
LATERALITY  
USE LATERAL STABILITY  
LATERALIZATION  
USE LATERAL CONTROL  
LATEX  
0409 0603 1808  
BT #RUBBER  
RT ACRYLIC RESINS  
LATHES  
1504 3404  
BT TURRET LATHES  
BT MACHINE TOOLS  
#TOOLS  
RT CONSTRUCTION MATERIALS  
GRINDING MACHINES  
LATITUDE  
1303 1305 1308 1902 2103  
UP MERIDIANS  
BT GEOMAGNETIC LATITUDE

## NASA THESAURUS (ALPHABETICAL LISTING)

RT #COORDINATES  
GEODETIC COORDINATES  
LONGITUDE  
POSITION (LOCATION)  
LATITUDE MEASUREMENT  
1901 2103  
RT LONGITUDE MEASUREMENT  
MEASUREMENT  
#NAVIGATION  
POSITIONING  
LATTICE IMPERFECTIONS  
USE CRYSTAL DEFECTS  
LATTICE PARAMETERS  
2601  
BT INDEPENDENT VARIABLES  
RT #CRYSTAL LATTICES  
CRYSTALLOGRAPHY  
PATTERSON MAP  
X RAY ANALYSIS  
LATTICE VIBRATIONS  
0603 2404 2601  
BT #VIBRATION  
RT CRYSTAL DEFECTS  
#CRYSTAL LATTICES  
FORBIDDEN BANDS  
PARTICLE MOTION  
PHONONS  
RANDOM VIBRATION  
SPIN-LATTICE RELAXATION  
THERMAL ENERGY  
LATTICES  
1704 1902 2405 2601 2603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #CRYSTAL LATTICES  
LATTICES (MATHEMATICS)  
LATTICES (MATHEMATICS)  
0802 1902  
UP SUBLATTICES  
RT BOOLEAN ALGEBRA  
BOOLEAN FUNCTIONS  
BT #MATHEMATICAL LOGIC  
RT #COMMUNICATION THEORY  
KAKUTANI THEOREM  
LATTICES  
MATHEMATICS  
MATRICES  
SET THEORY  
LAUE METHOD  
1407 1411 2402 2601  
BT X RAY ANALYSIS  
RT #CRYSTAL LATTICES  
CRYSTALLOGRAPHY  
DIFFRACTION  
METHODOLOGY  
X RAY DIFFRACTION  
LAUGHING  
0408 0410  
RT EMOTIONS  
HUMAN REACTIONS  
LAUNCH COMPLEXES  
USE LAUNCHING BASES  
LAUNCH DATES  
1104 3001 3009 3102  
RT LAUNCH WINDOWS  
#LAUNCHING  
SPACECRAFT LAUNCHING  
#TIME  
LAUNCH ESCAPE SYSTEMS  
0502 0506 1104 3102  
UP LES (ESCAPE SYSTEMS)  
BT ESCAPE SYSTEMS  
RT ESCAPE CAPSULES  
ESCAPE ROCKETS  
LAUNCH TIME  
USE LAUNCH WINDOWS  
LAUNCH VEHICLE CONFIGURATIONS  
0201 3009 3103  
RT AERODYNAMIC CONFIGURATIONS  
CONFIGURATIONS  
#LAUNCH VEHICLES  
MISSILE CONFIGURATIONS  
PROPULSION SYSTEM CONFIGURATIONS  
RECOVERABLE LAUNCH VEHICLES  
SPACECRAFT CONFIGURATIONS  
#LAUNCH VEHICLES  
3103 3110  
UP CARRIER ROCKETS  
WINGED ROCKET BOOSTERS  
RT ABLESTAR LAUNCH VEHICLE  
ATLAS ABLE 5 LAUNCH VEHICLE

# NASA TREASURUS (ALPHABETICAL LISTING)

ATLAS AGENA B LAUNCH VEHICLE  
 ATLAS AGENA LAUNCH VEHICLES  
 ATLAS CENTAUR LAUNCH VEHICLE  
 ATLAS LAUNCH VEHICLES  
 ATLAS SLV-3 LAUNCH VEHICLE  
 BLUE SCOUT ROCKET VEHICLE  
 BLUE STREAK LAUNCH VEHICLE  
 CENTAUR LAUNCH VEHICLE  
 DELTA LAUNCH VEHICLE  
 DIAMANT LAUNCH VEHICLE  
 ELDG LAUNCH VEHICLE  
 EUROPA 1 LAUNCH VEHICLE  
 EUROPA 2 LAUNCH VEHICLE  
 EUROPA 3 LAUNCH VEHICLE  
 EUROPA 4 LAUNCH VEHICLE  
 EUROPA LAUNCH VEHICLES  
 HYL-A-STAR ROCKET VEHICLE  
 JUNO 1 LAUNCH VEHICLE  
 JUNO 2 LAUNCH VEHICLE  
 JUNO 5 LAUNCH VEHICLE  
 JUNO LAUNCH VEHICLES  
 LITTLE JOE 2 LAUNCH VEHICLE  
 NOMAD LAUNCH VEHICLE  
 NOVA H LAUNCH VEHICLE  
 NOVA J LAUNCH VEHICLE  
 NOVA LAUNCH VEHICLES  
 RAM B LAUNCH VEHICLE  
 RECOVERABLE LAUNCH VEHICLES  
 REUSABLE LAUNCH VEHICLES  
 SATURN 1B LAUNCH VEHICLES  
 SATURN D LAUNCH VEHICLE  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 SATURN 2 LAUNCH VEHICLES  
 SATURN 5 LAUNCH VEHICLES  
 SATURN 1 SA-1 LAUNCH VEHICLE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 SATURN 1 SA-5 LAUNCH VEHICLE  
 SATURN 1 SA-6 LAUNCH VEHICLE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 SCOUT LAUNCH VEHICLE  
 STANDARD LAUNCH VEHICLE 2A  
 STANDARD LAUNCH VEHICLE 1B  
 STANDARD LAUNCH VEHICLE F 1  
 STANDARD LAUNCH VEHICLE 1  
 STANDARD LAUNCH VEHICLE 5  
 STANDARD LAUNCH VEHICLES  
 THOR ABLE ROCKET VEHICLE  
 THOR AGENA LAUNCH VEHICLE  
 THOR DELTA LAUNCH VEHICLE  
 THOR LAUNCH VEHICLES  
 THORAD LAUNCH VEHICLES  
 TITAN 3 LAUNCH VEHICLE  
 TITAN LAUNCH VEHICLES  
 VANGUARD 2 LAUNCH VEHICLE  
 VEGA LAUNCH VEHICLE  
 AEROSPACEPLANES  
 ASTROPLANE  
 BOOSTER ROCKET ENGINES  
 BOOSTER ROCKETS  
 BOOSTERS  
 CENTAUR PROJECT  
 FLIGHT TEST VEHICLES  
 JUPITER C ROCKET VEHICLE  
 JUPITER PROJECT  
 LANDING MODULES  
 LAUNCH VEHICLE CONFIGURATIONS  
 #LAUNCHERS  
 #LAUNCHING  
 #MISSILE LAUNCHERS  
 #MISSILES  
 MULTIENGINE VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 NATIONAL LAUNCH VEHICLE PROGRAM  
 ROCKET CATAPULTS  
 ROCKET ENGINES  
 ROCKET LAUNCHERS  
 ROCKET LAUNCHING  
 #ROCKET VEHICLES  
 ROCKETS  
 SATURN PROJECT  
 SCOUT PROJECT  
 SPACECRAFT  
 SPACECRAFT LAUNCHING  
 SUSTAINER ROCKET ENGINES  
 TEST VEHICLES  
 TITAN PROJECT

VEHICLES  
 VERNIER ENGINES  
 WINGED VEHICLES  
 LAUNCH WINDOWS  
 1104 3102 3103  
 UP LAUNCH TIME  
 BT WINDOWS (INTERVALS)  
 RT LAUNCH DATES  
 #LAUNCHING  
 ROCKET LAUNCHING  
 SPACECRAFT LAUNCHING  
 #LAUNCHERS  
 1104 3102 3103  
 UP LAUNCHING DEVICES  
 NT AIRCRAFT LAUNCHING DEVICES  
 CATAPULTS  
 GUN LAUNCHERS  
 HYPERVELOCITY LAUNCHERS  
 JATO ENGINES  
 MISSILE LAUNCHERS  
 MOBILE MISSILE LAUNCHERS  
 ROCKET CATAPULTS  
 ROCKET ENGINE 2KS-36250  
 ROCKET ENGINE 15KS-25000  
 ROCKET LAUNCHERS  
 RT #LAUNCH VEHICLES  
 #LAUNCHING  
 LAUNCHING PADS  
 LAUNCHING SITES  
 NATIONAL LAUNCH VEHICLE PROGRAM  
 ROCKET LAUNCHING  
 TITAN PROJECT  
 #LAUNCHING  
 1104 3102 3103  
 NT AIR LAUNCHING  
 LOWAR LAUNCH  
 ORBITAL LAUNCHING  
 ROCKET LAUNCHING  
 SEA LAUNCHING  
 SPACECRAFT LAUNCHING  
 RT COUNTDOWN  
 LAUNCH DATES  
 #LAUNCH VEHICLES  
 LAUNCH WINDOWS  
 #LAUNCHERS  
 LAUNCHING BASES  
 LAUNCHING PADS  
 LAUNCHING SITES  
 MISSILE LAUNCHERS  
 NATIONAL LAUNCH VEHICLE PROGRAM  
 PRELAUNCH TESTS  
 ROCKET LAUNCHERS  
 SHOT  
 STARTING  
 TITAN PROJECT  
 LAUNCHING BASES  
 1102 1104 3102  
 UP LAUNCH COMPLEXES  
 NT CAPE KENNEDY LAUNCH COMPLEX  
 RT FACILITIES  
 GROUND SUPPORT EQUIPMENT  
 #LAUNCHING  
 LAUNCHING PADS  
 LAUNCHING SITES  
 LAUNCHING DEVICES  
 USE #LAUNCHERS  
 LAUNCHING PADS  
 1104 3102  
 BT LAUNCHING SITES  
 #SITES  
 RT PLANE DEFLECTORS  
 GANTRY CRANES  
 GROUND SUPPORT EQUIPMENT  
 #LAUNCHERS  
 #LAUNCHING  
 LAUNCHING BASES  
 PAD  
 PLATFORMS  
 SPACECRAFT LAUNCHING  
 UMBILICAL TOWERS  
 LAUNCHING SITES  
 1102 1104 3102  
 NT LAUNCHING PADS  
 BT #SITES  
 RT GANTRY CRANES  
 GROUND SUPPORT EQUIPMENT  
 #LAUNCHERS  
 #LAUNCHING  
 LAUNCHING BASES  
 MISSILE LAUNCHERS  
 MISSILE SILOS  
 #MISSILES

## LAYERS

NATIONAL LAUNCH VEHICLE PROGRAM  
 ROCKET CATAPULTS  
 ROCKET LAUNCHERS  
 LAVA  
 1304 1306  
 UP IGNIMBRITE  
 NT EFFUSIVES  
 BT EARTH RESOURCES  
 IGNEOUS ROCKS  
 ROCKS  
 RT AGGREGATES  
 CALDERAS  
 MAGMA  
 MARIAS  
 #MINERALS  
 VOLCANOLOGY  
 LAVAL NUMBER  
 1202 1902 3303  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 LAW  
 3403  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CLAIMING  
 #LAW (JURISPRUDENCE)  
 #LAWS  
 #LAW (JURISPRUDENCE)  
 3403  
 NT INTERNATIONAL LAW  
 LEGAL LIABILITY  
 LIABILITIES  
 PENALTIES  
 SPACE LAW  
 RT CONSTITUTION  
 LAW  
 POLITICS  
 REGULATIONS  
 VOTING  
 LAWRENCIUM  
 0603 1703 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPE  
 #METALS  
 NUCLIDES  
 RADIOACTIVE ISOTOPE  
 TRANSURANIUM ELEMENTS  
 #LAWS  
 2311  
 NT CHILD-LANGMOIR LAW  
 CLOSURE LAW  
 CONSERVATION LAWS  
 FOURIER LAW  
 HOOKES LAW  
 KEPLER LAWS  
 KIRCHHOFF LAW OF RADIATION  
 NEWTON-BUSEMANN LAW  
 NEWTON PRESSURE LAW  
 NEWTON SECOND LAW  
 OHMS LAW  
 RADIATION LAWS  
 SCALING LAWS  
 SIMILITUDE LAW  
 SNELLS LAW  
 STEFAN-BOLTZMANN LAW  
 TAPEL LAW  
 WEBER-PECHNER LAW  
 RT LAW  
 #RULES  
 STOKES LAW  
 LAYERS  
 0101 0202 1202 1301 1302 1308 1504  
 1703 1805 3203  
 (USE OF A MORE SPECIFIC TERM  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP LAMINA  
 PLIES  
 RT BARRIER LAYERS  
 BOUNDARY LAYERS  
 #COATINGS  
 DEEP SCATTERING LAYERS  
 FLAT LAYERS  
 FORMATIONS  
 INTERLAYERS  
 IONOSPHERE  
 LAMINATES  
 #MEMBRANES  
 MONOMOLECULAR FILMS



# LAYOUTS

MULTILAYER INSULATING  
PLASMA LAYERS  
#REGIONS  
SEDIMENTARY ROCKS  
SHEAR LAYERS  
SHOCK LAYERS  
STRATA  
STRATIFICATION  
SUBSTRATES  
SURFACE LAYERS

LAYOUTS  
3203 3401 3404 3406  
RT BLUEPRINTS  
CIRCUIT DIAGRAMS  
CONSTRUCTION  
DESCRIPTIVE GEOMETRY  
DESIGN  
DRAWING  
DRAWINGS  
ENGINEERING DRAWINGS  
#MODELS  
PLANS  
SURVEYS

LAZAREV METEORITE  
3005  
BT #CELESTIAL BODIES  
METEORITES  
RT IRON METEORITES  
STONY METEORITES

LC CIRCUITS  
0902 2304  
BT #CIRCUITS  
ELECTRICAL IMPEDANCE  
#ELECTRICAL PROPERTIES  
ELECTRICAL RESISTANCE  
#IMPEDANCE  
RL CIRCUITS  
T INDUCTANCE  
NETWORK ANALYSIS  
NETWORK SYNTHESIS  
PARAMETRIC AMPLIFIERS  
TIME CONSTANT

LCRE REACTOR  
USE LITHIUM COOLED REACTOR EXPERIMENT

LEACHING  
0602 3404  
RT AUTOCLAVING  
BENEFICIATION  
DISSOLVING  
ELUTION  
EXTRACTION  
FLUSHING  
HYDROMETALLURGY  
PERCOLATION  
PERMEABILITY  
SEPARATION

LEAD (METAL)  
1703  
BT LEAD ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS

LEAD ACETATES  
0603 1804  
BT ACETATES  
#ESTERS  
LEAD COMPOUNDS  
LEAD ORGANIC COMPOUNDS

LEAD ALLOYS  
0603 1701 1804  
BT #ALLOYS  
RT BEARING ALLOYS  
SOLDERS

LEAD CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
LEAD COMPOUNDS  
METAL HALIDES

LEAD COMPOUNDS  
0603 1701 1804  
UP PLUMBAGE  
BT LEAD ACETATES  
LEAD CHLORIDES  
LEAD HOLYBATES  
LEAD OXIDES  
LEAD SELENIDES  
LEAD SULFIDES  
LEAD TELLURIDES  
LEAD TITANATES  
LEAD TUNGSTATES

BT CHEMICAL COMPOUNDS  
GROUP 4A COMPOUNDS  
METAL COMPOUNDS

LEAD ISOTOPES  
0603 1703 1704 2406  
BT LEAD (METAL)  
#CHEMICAL ELEMENTS  
ISOTOPES  
LEAD (METAL)  
NUCLIDES

LEAD HOLYBATES  
0603 1804  
BT LEAD COMPOUNDS  
HOLYBATES  
#HOLYBDEUM COMPOUNDS

LEAD ORGANIC COMPOUNDS  
1808  
BT LEAD ACETATES  
LEAD OXIDES  
0603 1804  
BT #CHALCOGENIDES  
LEAD COMPOUNDS  
METAL OXIDES  
OXIDES

LEAD POISONING  
0404 0405 0412  
BT #DISEASES  
TOXIC DISEASES  
TOXICITY  
POISONING  
SMOG

LEAD SELENIDES  
0603 1804  
BT #CHALCOGENIDES  
LEAD COMPOUNDS  
SELENIDES  
#SELENIUM COMPOUNDS

LEAD SULFIDES  
0603 1804  
BT #CHALCOGENIDES  
INORGANIC SULFIDES  
LEAD COMPOUNDS  
SULFIDES  
#SULFUR COMPOUNDS

LEAD TELLURIDES  
0603 1804  
BT #CHALCOGENIDES  
LEAD COMPOUNDS  
TELLURIDES  
#TELLURIUM COMPOUNDS

LEAD TITANATES  
0603 1804  
BT LEAD COMPOUNDS  
TITANATES  
#TITANIUM COMPOUNDS

LEAD TUNGSTATES  
0603 1804  
BT LEAD COMPOUNDS  
TUNGSTATES  
#TUNGSTEN COMPOUNDS

LEADERSHIP  
3401 3402 3406  
RT MORALE  
LEADING EDGE SLATS  
0102 0104 0202  
UP SLATS  
WING SLATS  
BT AERODYNAMIC BRAKES  
AIRCRAFT BRAKES  
#AIRFOILS  
#BRAKES (FOR ARRESTING MOTION)  
#CONTROL SURFACES  
#DRAG DEVICES  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
RT BOUNDARY LAYER CONTROL  
LEADING EDGES  
SPLIT FLAPS  
SPOILERS  
TRAILING-EDGE FLAPS  
WING SLOTS

LEADING EDGE SWEEP  
0101 0102  
BT SWEEP ANGLE  
SWEEPBACK  
RT LEADING EDGES  
LEADING EDGES  
0101 0102 0202  
UP ROUNDED LEADING EDGES  
THICKENED LEADING EDGES  
BT SHARP LEADING EDGES  
#EDGES

# NASA THESAURUS (ALPHABETICAL LISTING)

RT #AIRFOILS  
#FOREBODIES  
LEADING EDGE SLATS  
LEADING EDGE SWEEP  
TRAILING EDGES

LEAKAGE  
1502 1505 2405 3408  
RT CAVITIES  
CRACKS  
#DEFECTS  
ESCAPE  
#FLUID FLOW  
INTRUSION  
LOSSES  
PERMEABILITY  
PINHOLES  
POROSITY  
REDUCTION  
SEEPAGE  
#WASTES

LEAR JET AIRCRAFT  
0204  
BT #COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
RT AIRCRAFT

LEARNING  
0402 0408 0502  
BT ASYMPTOTIC METHODS  
CONDITIONING (LEARNING)  
ITERATIVE SOLUTION  
MAZE LEARNING  
PROBLEM SOLVING  
THEOREM PROVING  
TRANSFER OF TRAINING  
BT ACHIEVEMENT  
APTITUDE  
ASTRONAUT TRAINING  
BEHAVIOR  
CHILD DEVICE  
DECONDITIONING  
#EDUCATION  
EDUCATIONAL TELEVISION  
HABITS  
HABITUATION (LEARNING)  
INSTRUCTORS  
#KNOWLEDGE  
LEARNING MACHINES  
MEMORY  
MOTIVATION  
REINFORCEMENT (PSYCHOLOGY)  
#RESPONSES  
RETENTION (PSYCHOLOGY)  
STUDENTS  
TEACHING MACHINES  
TEXTBOOKS  
UNIVERSITIES

LEARNING CURVES  
0502 1902  
RT ASYMPTOTIC METHODS  
CURVES

LEARNING MACHINES  
0408 0502 3405  
UP MACHINE LEARNING  
BT ADAPTIVE CONTROL  
#AUTOMATIC CONTROL  
RT ARTIFICIAL INTELLIGENCE  
AUTOMATA THEORY  
CYBERNETICS  
FEEDBACK CONTROL  
#LEARNING  
MACHINERY  
SELF ORGANIZING SYSTEMS  
TEACHING MACHINES

LEARNING THEORY  
0402 0408 0502  
RT #EDUCATION  
PROBLEM SOLVING

LEAST SQUARES METHOD  
1902 1905  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
RT CORRELATION  
CURVE FITTING  
GAUSS-MARKOV THEOREM  
METHODOLOGY  
#OPTIMIZATION  
QUALITY CONTROL  
REGRESSION ANALYSIS  
SIMULTANEOUS EQUATIONS

LEATHER  
1805  
BT SKIN (ANATOMY)

# NASA THESAURUS (ALPHABETICAL LISTING)

RT #CLOTHING  
COLLAGENS  
SHOES  
LEAVES  
0409  
RT #PLANTS (BOTANY)  
RT DEPOLIANTS  
FOLIAGE  
LEBANON  
1305  
RT ASIA  
NATIONS  
LEBESGUE THEOREM  
1902  
BT #ANALYSIS (MATHEMATICS)  
MEASURE AND INTEGRATION  
REAL VARIABLES  
#THEOREMS  
RT SET THEORY  
LECTURES  
0502 3405  
RT #EDUCATION  
#SPEECH  
VERBAL COMMUNICATION  
LEDGES  
1504  
RT TOPOGRAPHY  
LEE WAVES  
0101 1202 1308 2003 2311 2502  
RT AIR CURRENTS  
BAROTROPIC FLOW  
#SURFACE WAVES  
TROPOSPHERIC WAVES  
VERTICAL AIR CURRENTS  
LEG (ANATOMY)  
0402 0404 0405 0506  
NT KNEE (ANATOMY)  
BT #ANATOMY  
#APPENDAGES  
LIMBS (ANATOMY)  
RT. FEMUR  
THIGH  
TIBIA  
LEGAL LIABILITY  
3403  
BT #LAW (JURISPRUDENCE)  
LIABILITIES  
RT CONTRACTS  
INTERNATIONAL LAW  
JUDGMENTS  
LOSSES  
PENALTIES  
PROHIBITION  
LEGENDE CODE  
USE COMPUTER PROGRAMMING  
NEUTRON SCATTERING  
LEGENDE FUNCTIONS  
1902  
UP LEGENDE POLYNOMIALS  
LEGENDE TRANSFORMATION  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
RT ORTHOGONAL FUNCTIONS  
SPHERICAL HARMONICS  
LEGENDE POLYNOMIALS  
USE LEGENDE FUNCTIONS  
LEGENDE TRANSFORMATION  
USE LEGENDE FUNCTIONS  
LEGIBILITY  
0408 0506 1401 3405 3408  
RT CHARACTER RECOGNITION  
CONTRAST  
#PERCEPTION  
PRINTING  
READING  
#RESOLUTION  
SYMBOLS  
VISIBILITY  
VISION  
LEGUMINOUS PLANTS  
0404 0409  
BT FARM CROPS  
BT AGRICULTURE  
BOTANY  
POOD  
MODULES  
VEGETABLES  
LEIDENFROST PHENOMENON  
1202 2303 2311  
BT BOILING  
NUCLEATE BOILING

#PHASE TRANSFORMATIONS  
VAPORIZING  
RT FILM BOILING  
HEAT TRANSFER  
LEN (LUNAR MODULE)  
USE LUNAR MODULE  
LENNAS  
USE #THEOREMS  
LENNARD WIRE METHOD  
1406 1408 2304  
RT METHODOLOGY  
LENGTH  
3408  
BT #DIMENSIONS  
RT DISTANCE  
THICKNESS  
LENNARD-JONES GAS  
1202 1203 1503  
RT BINARY FLUIDS  
GAS VISCOSITY  
LENS ANTENNAS  
0701 0901 2402  
BT ANTENNAS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
ANTENNA DESIGN  
DIPOLE ANTENNAS  
HORN ANTENNAS  
LENSES  
RADAR ANTENNAS  
WAVEGUIDE ANTENNAS  
WIRE GRID LENSES  
LENS DESIGN  
1404 1407 1412 2310  
RT COMPUTERIZED DESIGN  
DESIGN  
LENSES  
OPTICAL CORRECTION PROCEDURE  
OPTICS  
PRODUCT DEVELOPMENT  
STIGMATIC  
LENSES  
1404 1412 1504 2306 2307 2310 2501  
NT CONTACT LENSES  
MAGNETIC LENSES  
WIDE ANGLE LENSES  
WIRE GRID LENSES  
RT ASTIGMATISM  
CAMERAS  
EYE (ANATOMY)  
EYEPIECES  
FOCUSING  
LENS ANTENNAS  
LENS DESIGN  
MAGNIFICATION  
#OPTICAL EQUIPMENT  
OPTICAL FILTERS  
OPTICS  
PANORAMIC CAMERAS  
#PHOTOGRAPHIC EQUIPMENT  
REFRACTING TELESCOPES  
#REFRACTION  
STIGMATISM  
#TELESCOPES  
VIGNETTING  
LENTICULAR BODIES  
0103 1902 2310 3203  
BT #SYMMETRICAL BODIES  
RT AXISYMMETRIC BODIES  
BODIES  
CONVEIXITY  
LEONID METEORIODS  
3005  
BT #CELESTIAL BODIES  
METEOROID SHOWERS  
METEORIODS  
LEPTONS  
2403 2405  
NT ANTINEUTRINOS  
BT ELEMENTARY PARTICLES  
FERMIONS  
#PARTICLES  
RT CHARGED PARTICLES  
MUONS  
NEUTRINOS  
POSITRONS  
LES  
USE LINCOLN EXPERIMENTAL SATELLITES  
LES (ESCAPE SYSTEMS)  
USE LAUNCH ESCAPE SYSTEMS  
LESA (LUNAR EXPLORATION SYSTEM)  
USE LUNAR EXPLORATION SYSTEM FOR APOLLO

# LEVELING

LESIONS  
0405  
RT PULMONARY LESIONS  
BT #INJURIES  
RT ABRASION  
BURNS (INJURIES)  
LETHALITY  
0405 0412 3408  
RT CARBON MONOXIDE POISONING  
#DAMAGE  
DESTRUCTION  
LETHARGY  
0408 0410  
RT BOREDOM  
DEPRESSION  
DETACHMENT  
FRUSTRATION  
HUMAN BEHAVIOR  
INHIBITION  
MONOTONY  
LETTERS (SYMBOLS)  
USE SYMBOLS  
LEUCINE  
0402 0403 1808  
BT #ACIDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
LEUKEMIAS  
0405 0406 0408  
BT CANCER  
#DISEASES  
NEOPLASMS  
TUMORS  
RT BONE MARROW  
LEUKOCYTES  
0405 0406 0408  
NT EOSINOPHILS  
LYMPHOCYTES  
BT #ANATOMY  
BLOOD  
#BODY FLUIDS  
CARDIOVASCULAR SYSTEM  
#CELLS (BIOLOGY)  
RT ERYTHROCYTES  
WHITE BLOOD CELLS  
LEUKOPENIA  
0404 0405 0408  
BT SIGNS AND SYMPTOMS  
RT INFECTIOUS DISEASES  
LEVEL  
0704 1202 2103  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CHEMICAL ENERGY  
FREE ENERGY  
HEIGHT  
INTERNAL ENERGY  
LEVEL (HORIZONTAL)  
#LEVEL (QUANTITY)  
LEVEL (HORIZONTAL)  
1504 3408  
RT GRADE  
#GRADIENTS  
LEVEL  
SLOPES  
#LEVEL (QUANTITY)  
1504 3408  
NT ATOMIC ENERGY LEVELS  
ELECTRON STATES  
ENERGY LEVELS  
GROUND STATE  
INTERMOLECULAR FORCES  
MOLECULAR ENERGY LEVELS  
RT AMPLITUDES  
DISPLACEMENT  
FLUX  
FLUX (RATE)  
FLUX DENSITY  
INTENSITY  
LEVEL  
LOUDNESS  
MAGNITUDE  
VALUE  
LEVELING  
1504 3407  
(EXCLUDES METAL WORKING)  
RT ADJUSTING  
CONSISTENCY  
DATUM (ELEVATION)  
FLATTENING  
#METAL WORKING

# LEVERS

ROLLING  
SMOOTHING  
WINDING

LEVERS  
0506 1504 3404  
RT CANTILEVER MEMBERS  
HANDLES  
KNOBS  
MACHINERY  
MANUAL CONTROL  
MECHANICAL DEVICES  
PEDALS

LEVITATION  
1202 2311 3407 3408  
RT BUOYANCY  
ELECTROSTATIC GYROSCOPES  
PLOTATION  
FRICTIONLESS ENVIRONMENTS  
SUSPENSION SYSTEMS (VEHICLES)  
VACUUM MELTING

LEWIS BASE  
0603  
RT #AMINES  
ELECTRONS

LEWIS NUMBERS  
1202 1902  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
RT DENSITY (MASS/VOLUME)  
DIFFUSION COEFFICIENT  
#FLUID FLOW  
HEAT TRANSFER  
MASS FLOW  
MASS TRANSFER  
SPECIFIC HEAT  
THERMAL CONDUCTIVITY

LEXAN (TRADEMARK)  
1808  
BT #CARBON COMPOUNDS  
CARBONATES  
#ESTERS  
POLYCARBONATES  
RT POLYMERS  
#RESINS

LIABILITIES  
3403  
NT LEGAL LIABILITY  
BT #LAW (JURISPRUDENCE)  
RT COMMERCE  
DISCIPLINING  
LOSSES  
PENALTIES  
REGULATIONS

LIAPUNOV FUNCTIONS  
1902  
UP LYAPUNOV FUNCTIONS  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS

LIBERIA  
1305  
RT AFRICA  
NATIONS

LIBERTY BELL 7  
3104  
BT #MANNED SPACECRAFT  
MERCURY SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
#SPACE CAPSULES  
RT MERCURY MR-4 FLIGHT

LIBRARIES  
3405  
RT BIBLIOGRAPHIES  
CATALOGS (PUBLICATIONS)  
DATA RETRIEVAL  
DOCUMENTATION  
#DOCUMENTS  
INFORMATION DISSEMINATION  
INFORMATION RETRIEVAL  
INFORMATION SYSTEMS  
INTERSERVICE DATA EXCHANGE PROGRAM  
LITERATURE  
MUSEUMS  
REFERENCE SYSTEMS  
SELECTIVE DISSEMINATION OF  
INFORMATION  
TEXTBOOKS  
WORLD DATA CENTERS

LIBRATION  
2308 2404 3001  
RT EARTH LIMB  
LUNAR FAR SIDE  
LUNAR LIMB  
MOTION  
NUTATION  
PRECESSION  
ROTATION

LIBRATIONAL MOTION  
2308  
RT LAGRANGE COORDINATES

LIBYAN DESERT  
1305  
BT DESERTS  
RT AFRICA

LICHENS  
0403 0409  
BT #PLANTS (BOTANY)  
RT ALGAE  
FUNGI  
LACUNAS  
SYMBIOSIS

LIDAR  
USE OPTICAL RADAR

LIE GROUPS  
1902  
NT SPINOR GROUPS  
BT #ALGEBRA  
DIFFERENTIAL GEOMETRY  
#GEOMETRY  
RT GROUP THEORY

LIENARD POTENTIAL  
1902  
BT ELECTRIC POTENTIAL  
#POTENTIAL ENERGY  
RT #ELECTRIC CURRENT  
ELECTRIC FIELDS

LIES  
0408 0410  
RT MENTAL PERFORMANCE

LIFE (BIOLOGY)  
USE LIFE SCIENCES

LIFE (DURABILITY)  
3408 2404 3404  
UP LIFETIME (DURABILITY)  
NT FATIGUE LIFE  
HALF LIFE  
PLASMA LIFETIME  
SATELLITE LIFETIME  
SERVICE LIFE  
STORAGE STABILITY  
RT ACCELERATED LIFE TESTS  
DEPLETION  
DEPRECIATION  
DURABILITY  
FAILURE ANALYSIS  
LONG TERM EFFECTS  
LONGEVITY  
MILLS RATIO  
MTBF  
RESISTANCE  
VULNERABILITY

LIFE DETECTORS  
0501 0708 1411 3004 3007  
RT BIOSATELLITES  
DETECTORS  
EXTRATERRESTRIAL LIFE

LIFE RAFTS  
0203 0508  
BT RAFTS  
RT FLOATS  
INFLATABLE STRUCTURES  
LIFEBOATS

LIFE SCIENCES  
0401 0404 0405 0410 3402  
UP LIFE (BIOLOGY)  
RT MOLECULAR BIOLOGY  
BT A BIOGENESIS  
AEROSPACE SCIENCES  
AGING (BIOLOGY)  
BIOLOGICAL EVOLUTION  
ENVIRONMENTAL ENGINEERING  
NEUROLOGY  
PHYSICAL SCIENCES  
SCIENCE

LIFE SPAN  
0405 0408 0411 0507  
(LIMITED TO THE LIFE SCIENCES)  
RT AGE FACTOR  
AGING (BIOLOGY)  
DEATH

# NASA THESAURUS (ALPHABETICAL LISTING)

EXISTENCE  
GERONTOLOGY  
LONGEVITY  
MORTALITY  
SPAN

LIFE SUPPORT SYSTEMS  
0504 0505 0507  
NT BIOPAKS  
CLOSED ECOLOGICAL SYSTEMS  
EMERGENCY LIFE SUSTAINING SYSTEMS  
INLSS  
UNDERWATER BREATHING APPARATUS  
AEROSPACE ENVIRONMENTS  
AIR CONDITIONING  
ARTIFICIAL GRAVITY  
ASTRONAUT LOCOMOTION  
ATMOSPHERES  
BIOSATELLITES  
BREATHING APPARATUS  
ENVIRONMENTAL ENGINEERING  
#ENVIRONMENTS  
EXOBIOLOGY  
HUMAN FACTORS ENGINEERING  
LONG TERM EFFECTS  
LUNAR ENVIRONMENT  
LUNAR LOGISTICS  
LUNAR SHELTERS  
NUTRIENTS  
#ONBOARD EQUIPMENT  
OXYGEN MASKS  
OXYGEN SUPPLY EQUIPMENT  
PLANETARY ENVIRONMENTS  
PRESSURE SUITS  
PRESSURIZED CABINS  
PROVISIONING  
REBREATHING  
SPACE FLIGHT FEEDING  
SPACECRAFT ENVIRONMENTS  
SUPPORT SYSTEMS  
SURVIVAL  
SUSTAINING  
SYSTEMS  
THERMAL ENVIRONMENTS  
UNDERWATER BREATHING APPARATUS  
VENTILATION  
WATER  
WEIGHTLESSNESS

LIFEBOATS  
0502 0508  
BT BOATS  
#SURFACE VEHICLES  
#WATER VEHICLES  
RT LIFE RAFTS  
RAFTS  
SURVIVAL EQUIPMENT

LIFETIME (DURABILITY)  
USE LIFE (DURABILITY)

LIFT  
0101 0102 0103 3102 3103  
UP AERODYNAMIC LIFT  
LIFT COEFFICIENTS  
LIFT DISTRIBUTION  
LIFT FORCES  
VARIABLE LIFT  
INTERFERENCE LIFT  
JET LIFT  
ROTOR LIFT  
ZERO LIFT  
BT #AERODYNAMIC CHARACTERISTICS  
#AERODYNAMIC FORCES  
#DYNAMIC CHARACTERISTICS  
RT AERODYNAMIC COEFFICIENTS  
AERODYNAMIC CONFIGURATIONS  
AERODYNAMIC DRAG  
AERODYNAMICS  
#AIRFOILS  
ANGLE OF ATTACK  
ASPECT RATIO  
CAMBER  
#DISTRIBUTION (PROPERTY)  
DRAG  
GLIDING  
GROUND EFFECT  
HYPERSONIC FORCES  
LIFT DEVICES  
LIFT DRAG RATIO  
LIFT FANS  
PRESSURE DISTRIBUTION  
SWEEP EFFECT

LIFT AUGMENTATION  
0102 0103 2802  
RT BOUNDARY LAYER CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

DOWNWASH  
LIFT DEVICES  
PERIPHERAL JET FLOW  
LIFT COEFFICIENTS  
USE AERODYNAMIC COEFFICIENTS  
LIFT  
LIFT DEVICES  
0101 0102 0103  
UP HIGH LIFT DEVICES  
LIFTING SURFACES  
RT BOUNDARY LAYER CONTROL DEVICES  
DIRECT LIFT CONTROLS  
#DRAG DEVICES  
FLAPS (CONTROL SURFACES)  
LIFT  
LIFT AUGMENTATION SLOTS  
LIFT DISTRIBUTION  
USE FORCE DISTRIBUTION  
LIFT  
LIFT DRAG RATIO  
0101 0201 1202 1203  
UP DRAG BALANCE  
BT #RATIOS  
RT AERODYNAMIC BALANCE  
AERODYNAMIC COEFFICIENTS  
AERODYNAMIC DRAG  
AERODYNAMIC STALLING  
BOUNDARY LAYER SEPARATION  
DRAG REDUCTION  
FORCE DISTRIBUTION  
LIFT  
LIFT FANS  
0103 0104 0209 2808  
UP FANLIFT DEVICES  
RT DUCTED FANS  
FAN IN WING AIRCRAFT  
LIFT  
LIFTING ROTORS  
PROPELLER FANS  
ROTARY WINGS  
SHORT TAKEOFF AIRCRAFT  
TURBOPANS  
VERTICAL TAKEOFF AIRCRAFT  
XV-11A AIRCRAFT  
LIFT FORCES  
USE LIFT  
#LIFTING BODIES  
0103 0104  
UP LIFTING SURFACES  
NT HL-10 REENTRY VEHICLE  
HLD-35 REENTRY VEHICLE  
JANUS SPACECRAFT  
LIFTING REENTRY VEHICLES  
M-2P2 LIFTING BODY  
M-2 LIFTING BODY  
I-20 AIRCRAFT  
I-24 AIRCRAFT  
RT AERODYNAMIC CONFIGURATIONS  
#AIRFOILS  
BLUFF BODIES  
BODIES  
DEVICES  
LUNAR FLYING VEHICLES  
#REENTRY VEHICLES  
TOWED BODIES  
LIFTING REENTRY VEHICLES  
0101 0104 3105  
UP REENTRY GLIDERS  
SPACE GLIDERS  
NT PDL-5 REENTRY VEHICLE  
HL-10 REENTRY VEHICLE  
HLD-35 REENTRY VEHICLE  
JANUS SPACECRAFT  
M-2 LIFTING BODY  
I-20 AIRCRAFT  
I-24 AIRCRAFT  
BT #LIFTING BODIES  
#MANEUVERABLE SPACECRAFT  
#REENTRY VEHICLES  
RT AEROSPACEPLANES  
AIRCRAFT  
ASSET GLIDERS  
ASTRO VEHICLE  
ASTROPLANE  
BOOSTGLIDE VEHICLES  
#GLIDERS  
HYPERSONIC GLIDERS  
INFLATABLE HYPERSONIC VEHICLES  
M-2P2 LIFTING BODY  
M-2 LIFTING BODY

MANNED REENTRY  
#MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
REENTRY  
SPACECRAFT REENTRY  
LIFTING ROTORS  
0103 0104  
BT #AIRFOILS  
ROTARY WINGS  
#ROTATING BODIES  
ROTORBS  
WINGS  
RT GROUND EFFECT MACHINES  
LIFT FANS  
ROTARY WING AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
LIFTING SURFACES  
USE LIFT DEVICES  
#LIFTING BODIES  
SURFACES  
LIFTS  
1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONVEYORS  
CRANES  
ELEVATORS (LIFTS)  
ESCALATORS  
JACKS (LIFTS)  
WINCHES  
LIGAMENTS  
0404 0405  
RT CONNECTIVE TISSUE  
JOINTS (ANATOMY)  
LIGAMENTS  
0404 0405  
RT CHEMICAL BONDS  
CHEMICAL COMPOSITION  
LIGHT (VISIBLE RADIATION)  
2306 2402  
UP EXTRAGALACTIC LIGHT  
OPTICAL SPECTRUM  
VISIBLE RADIATION  
VISIBLE SPECTRUM  
NT AIRGLOW  
COHERENT LIGHT  
DAYGLOW  
GEGENSCHREIN  
GEOCORONAL EMISSIONS  
LIGHT BEAMS  
NIGHTGLOW  
SKY RADIATION  
SUNLIGHT  
TWILIGHT GLOW  
ZODIACAL LIGHT  
BT #ELECTROMAGNETIC RADIATION  
RT #ATMOSPHERIC RADIATION  
#ATTENUATION  
#BEAMS (RADIATION)  
BLACK BODY RADIATION  
BRIGHTNESS  
CERENKOV RADIATION  
COHERENT ELECTROMAGNETIC RADIATION  
#COHERENT RADIATION  
COLOR  
CRITICAL FREQUENCIES  
DARKNESS  
DICHROISM  
ELECTROMAGNETIC SPECTRA  
#ENERGY ABSORPTION  
EXCITONS  
#EXTRATERRESTRIAL RADIATION  
FLASH  
GLARE  
ILLUMINANCE  
INCANDESCENCE  
INFRARED RADIATION  
#LIGHTING EQUIPMENT  
LINE SPECTRA  
LENSES  
LUMINAIBES  
LUMINANCE  
LUMINESCENCE  
LUMINOSITY  
LUMINOUS INTENSITY  
MONOCHROMATIC RADIATION  
NEAR INFRARED RADIATION  
NEAR ULTRAVIOLET RADIATION  
OPACITY  
OPTICAL EMISSION SPECTROSCOPY

## LIGHT AIRCRAFT

#OPTICAL MEASUREMENT  
OPTICAL PROPERTIES  
OPTICS  
PHOTICS  
PHOTOMETRY  
PHOTONS  
PHOTONUCLEAR REACTIONS  
PHOTOPHILIC PLANTS  
PHOTOSENSITIVITY  
PLANETARY RADIATION  
POLARIZED ELECTROMAGNETIC RADIATION  
POLARIZERS  
BANAN SPECTRA  
REFLECTION  
#REFRACTION  
REFRACTIVITY  
SHADOWS  
SKY BRIGHTNESS  
SOLAR RADIATION  
THERMAL RADIATION  
TRANSMITTANCE  
ULTRAVIOLET SPECTRA  
VISIBILITY  
LIGHT ABSORPTION  
USE ELECTROMAGNETIC ABSORPTION  
LIGHT ADAPTATION  
0404 0405 0502 0506 2306 2310  
BT #ADAPTATION  
PHOTOSENSITIVITY  
RETINAL ADAPTATION  
#SENSITIVITY  
RT FLASH BLINDNESS  
NIGHT VISION  
PUPILLOMETRY  
THRESHOLDS (PERCEPTION)  
VISION  
LIGHT AIRCRAFT  
0204 0207  
NT BEECHCRAFT 18 AIRCRAFT  
BECHCRAFT 95 AIRCRAFT  
BOLKOW 207 AIRCRAFT  
C-33 AIRCRAFT  
C-35 AIRCRAFT  
CESSNA 172 AIRCRAFT  
CESSNA 205 AIRCRAFT  
CESSNA 210 AIRCRAFT  
CESSNA 336 AIRCRAFT  
CESSNA L-19 AIRCRAFT  
DH 125 AIRCRAFT  
DINPIA PA AIRCRAFT  
DO-27 AIRCRAFT  
DO-28 AIRCRAFT  
F-28 HELICOPTER  
G-1 AIRCRAFT  
G-91 AIRCRAFT  
GRASSHOPPER HELICOPTER  
GY-80 AIRCRAFT  
KH-4 HELICOPTER  
LIGHT INTRATHEATER TRANSPORT  
M-218 AIRCRAFT  
MH-262 AIRCRAFT  
MYSTERE 20 AIRCRAFT  
OH-4 HELICOPTER  
OH-5 HELICOPTER  
OH-6 HELICOPTER  
P-166 AIRCRAFT  
PD-808 AIRCRAFT  
PIPER AIRCRAFT  
POTEZ 840 AIRCRAFT  
PZL M-4 AIRCRAFT  
SAAB 91 AIRCRAFT  
SAAB 105 AIRCRAFT  
SC-7 AIRCRAFT  
SIEMETZKI T-3 HELICOPTER  
U-3 AIRCRAFT  
U-10 AIRCRAFT  
VZ-8 AIRCRAFT  
YAK 40 AIRCRAFT  
RT AIRCRAFT  
BIPLANES  
DRONE AIRCRAFT  
FIREBEE 2 TARGET DRONE AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LOW WING AIRCRAFT  
MILITARY AIRCRAFT  
OBSERVATION AIRCRAFT  
PASSENGER AIRCRAFT  
#PILOTLESS AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
SUBMERSIBLE AIRCRAFT  
SUBSONIC AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT

# **LIGHT ALLOYS**

TRAINING AIRCRAFT  
 \*TRANSPORT AIRCRAFT  
 UTILITY AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT  
**LIGHT ALLOYS**  
 0603 1701  
 BT ALUMINUM ALLOYS  
 BERYLLIUM ALLOYS  
 MAGNESIUM ALLOYS  
 BT #ALLOYS  
 RT LIGHT ELEMENTS  
 METALLURGY  
 #METALS  
**LIGHT AMPLIFIERS**  
 1601 2306  
 UP OPTICAL AMPLIFIERS  
 BT #AMPLIFIERS  
 RT IMAGE CONVERTERS  
 IMAGE ENHANCEMENT  
 IMAGE INTERSIFIERS  
 LALLENAND CAMERAS  
 LASERS  
 MICROCHANNELS  
 PHOTOCATHODES  
**LIGHT ARMED RECONNAISSANCE AIRCRAFT**  
 USE COIN AIRCRAFT  
**LIGHT BEAMS**  
 2306 2402  
 UP LIGHT PROBES  
 BT #BEAMS (RADIATION)  
 #ELECTROMAGNETIC RADIATION  
 LIGHT (VISIBLE RADIATION)  
 PHOTON BEAMS  
 RT LASERS  
 PHOTONS  
**LIGHT BULBS**  
 USE LUMINAIRES  
**LIGHT COMMUNICATION**  
 USE OPTICAL COMMUNICATION  
**LIGHT DURATION**  
 USE FLASH  
 PULSE DURATION  
**LIGHT ELEMENTS**  
 0411 0603  
 BT #CHEMICAL ELEMENTS  
 RT ELEMENTS  
 LIGHT ALLOYS  
 LOW DENSITY MATERIALS  
**LIGHT EMISSION**  
 1411 1601 2306 2405  
 UP AURORAL EMISSION  
 OPTICAL EMISSION  
 NT BIOLUMINESCENCE  
 CHEMILUMINESCENCE  
 ELECTROLUMINESCENCE  
 FLUORESCENCE  
 INCANDESCENCE  
 LUMINESCENCE  
 LUNAR LUMINESCENCE  
 OPTICAL RESONANCE  
 PHOSPHORESCENCE  
 PHOTOLUMINESCENCE  
 SHOCK WAVE LUMINESCENCE  
 SONOLUMINESCENCE  
 THERMOLUMINESCENCE  
 X RAY FLUORESCENCE  
 BT #DECAY  
 EMISSION  
 RT AIRGLOW  
 AURORAL ABSORPTION  
 AURORAL IONIZATION  
 AURORAL SPECTROSCOPY  
 AURORAS  
 DIMMING  
 #ELECTROMAGNETIC RADIATION  
 SELF SUSTAINED EMISSION  
 SKY BRIGHTNESS  
 SPECTRAL EMISSION  
 STIMULATED EMISSION  
**LIGHT GAS GUNS**  
 1203 3103  
 BT GAS GUNS  
 RT HYPERVELOCITY PROJECTILES  
**LIGHT INTENSITY**  
 USE LUMINOUS INTENSITY  
**LIGHT INTRATHEATER TRANSPORT**  
 0207  
 BT LIGHT AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 RT AIRCRAFT  
 COIN AIRCRAFT

**LIGHT MODULATION**  
 1601 2310 2402  
 UP OPTICAL MASER MODULATION  
 OPTICAL MODULATION  
 NT MIROS SYSTEM  
 ULTRASONIC LIGHT MODULATION  
 BT #MODULATION  
 RT AMPLITUDE MODULATION  
 ELECTRO-OPTICAL EFFECT  
 FREQUENCY MODULATION  
 KERR ELECTROOPTICAL EFFECT  
 LASERS  
 MODULATORS  
 OPTICAL HETERODYNING  
 PULSE MODULATION  
 TRAVELING WAVE MODULATION  
**LIGHT PRESSURE**  
 USE ILLUMINANCE  
**LIGHT PROBES**  
 USE LIGHT BEAMS  
**LIGHT SCATTERING**  
 2306 2310 2402  
 BT ELECTROMAGNETIC SCATTERING  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 LIGHT TRANSMISSION  
 #SCATTERING  
 #TRANSMISSION  
 WAVE PROPAGATION  
 WAVE SCATTERING  
 RT AFTERGLOWS  
 ATMOSPHERIC SCATTERING  
 BRILLOUIN EFFECT  
 DIFFUSE RADIATION  
 ELECTROMAGNETIC ABSORPTION  
 FORWARD SCATTERING  
 RAYLEIGH SCATTERING  
 TRANSMISSIVITY  
 TROPOSPHERIC SCATTERING  
 UNKERR EFFECT  
**LIGHT SCATTERING METERS**  
 1406 2306  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT METEOROLOGICAL INSTRUMENTS  
**LIGHT SOURCES**  
 0904 2311  
 NT ILLUMINATORS  
 RT ARC LAMPS  
 DAYGLOW  
 DUOCHROMATORS  
 ELECTRIC ARCS  
 ELECTROLUMINESCENCE  
 FLASH LAMPS  
 GLOW DISCHARGES  
 HEAT SOURCES  
 ILLUMINATING  
 LASERS  
 #LIGHTING EQUIPMENT  
 LUMINAIRES  
 MERCURY LAMPS  
 MONOCHROMATORS  
 MOON  
 POINT SOURCES  
 RADIATION SOURCES  
 SUN  
**LIGHT SPEED**  
 0710 2306 2311  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT HIGH SPEED  
 RELATIVISTIC VELOCITY  
 SCHWARZSCHILD METRIC  
**LIGHT TRANSMISSION**  
 0710 1601 2306 2310 2402  
 UP OPTICAL ABSORPTION  
 RT LIGHT SCATTERING  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 #TRANSMISSION  
 ABSORPTANCE  
 ATMOSPHERIC OPTICS  
 ATMOSPHERIC REFRACTION  
 FERMAT PRINCIPLE  
 FIBER OPTICS  
 FLICKER  
 HAZE  
 ILLUMINATING  
 ILLUMINATION  
 LASERS  
 LOW VISIBILITY  
 MOLECULAR ABSORPTION  
 OPACITY

# **NASA THESAURUS (ALPHABETICAL LISTING)**

OPTICAL COUPLING  
 OPTICAL PROPERTIES  
 OPTICAL REFLECTION  
 RAINBOWS  
 #STIMULATED EMISSION DEVICES  
 TRANSLUCENCE  
 TRANSPARENCE  
 TURBIDITY  
 VISIBILITY  
 WAVE DISPERSION  
 WAVE PROPAGATION  
**LIGHTHILL GAS MODEL**  
 1203  
 BT #MODELS  
 RT BOUNDARY LAYER FLOW  
 GAS MIXTURES  
 GAS TRANSPORT  
 HYPERSONIC FLOW  
 MOLECULAR THEORY  
 #TRANSPORT PROPERTIES  
**LIGHTHILL METHOD**  
 1202 2301 3304  
 RT #AIRFOIL PROFILES  
 #AIRFOILS  
 CONFORMAL MAPPING  
 FLOW THEORY  
 INTEGRAL TRANSFORMATIONS  
 METHODOLOGY  
**LIGHTING**  
 USE ILLUMINATING  
**#LIGHTING EQUIPMENT**  
 0506 2306 2310 3404  
 NT AIRCRAFT LIGHTS  
 AIRPORT LIGHTS  
 ARC LAMPS  
 FLASH LAMPS  
 ILLUMINATORS  
 LUMINAIRES  
 MERCURY LAMPS  
 QUARTZ LAMPS  
 RUNWAY LIGHTS  
 SEARCHLIGHTS  
 XENON LAMPS  
 RT ELECTRIC EQUIPMENT  
 EQUIPMENT  
 FLARES  
 ILLUMINATING  
 LIGHT (VISIBLE RADIATION)  
 LIGHT SOURCES  
 #ONBOARD EQUIPMENT  
**LIGHTNING**  
 1301 2003 2306 2402  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT ARRESTERS  
 ATMOSPHERIC ELECTRICITY  
 ELECTRIC ARCS  
 ELECTRIC SPARKS  
 #ELECTRICITY  
 ELECTRODELESS DISCHARGES  
 GAS DISCHARGES  
 RADIATIVE RECOMBINATION  
 STATIC ELECTRICITY  
 THUNDERSTORMS  
 WHISTLERS  
**LIGHTS**  
 USE LUMINAIRES  
**LIGNIN**  
 0403 0406 0409  
 RT CELLULOSE  
 POLYMERS  
**LIMBS**  
 0404 0405 0506 0508  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT EARTH LIMB  
 LIMBS (ANATOMY)  
 LUNAR LIMB  
 SOLAR LIMB  
**LIMBS (ANATOMY)**  
 0404 0405  
 NT ARM (ANATOMY)  
 ELBOW (ANATOMY)  
 FOREARM  
 HAND (ANATOMY)  
 KNEE (ANATOMY)  
 LEG (ANATOMY)  
 BT #ANATOMY  
 RT #APPENDAGES  
 HUMAN BODY  
 LIMBS

# NASA THESAURUS (ALPHABETICAL LISTING)

LINE  
USE CALCIUM OXIDES  
LINEN  
0405 0408 0410  
RT PSYCHOLOGICAL TESTS  
LIMESTONE  
0603 1306 1806  
BT EARTH RESOURCES  
ROCKS  
SEDIMENTARY ROCKS  
RT AGGREGATES  
CALCIUM CARBONATES  
DOLOMITE (MINERAL)  
FLUXES  
#MINERALS  
SCHIST  
LIMITATIONS  
USE CONSTRAINTS  
LIMITER AMPLIFIERS  
0902 0904 1413  
BT #AMPLIFIERS  
RT LIMITER CIRCUITS  
LIMITER CIRCUITS  
0902 0904  
NT CLIPPER CIRCUITS  
BT #CIRCUITS  
RT CIRCULATORS (PHASE SHIFT CIRCUITS)  
CLAMPING CIRCUITS  
CURRENT REGULATORS  
LIMITER AMPLIFIERS  
POWER LIMITERS  
LIMITS  
1902 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT IGNITION LIMITS  
LIMITS (MATHEMATICS)  
#RANGE (EXTREMES)  
LIMITS (MATHEMATICS)  
1902  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
EXTREMUM VALUES  
REAL VARIABLES  
RT DIFFERENTIAL CALCULUS  
ENVELOPES  
LIMITS  
LIMONITE  
0603 1804 1806  
BT #IRON COMPOUNDS  
#MINERALS  
LINCOLN EXPERIMENTAL SATELLITES  
3107  
UF LES  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
LINE CURRENT  
0902 2304  
BT #ELECTRIC CURRENT  
RT ELECTRODYNAMICS  
MAGNETOHYDRODYNAMIC FLOW  
POWER SUPPLIES  
LINE SHAPE  
1902  
BT SHAPES  
RT CURVES (GEOMETRY)  
INFLECTION POINTS  
PROFILES  
LINE SPECTRA  
1411 2402 2405  
UF SPECTRAL LINES  
NT BALMER SERIES  
D LINES  
ELECTRONIC SPECTRA  
FRAUNHOFER LINES  
H ALPHA LINE  
H BETA LINE  
H GAMMA LINE  
H LINES  
K LINES  
LYMAN SPECTRA  
PASCHEN SERIES  
RYDBERG SERIES  
TELLURIC LINES  
BT ELECTROMAGNETIC SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
ATOMIC ENERGY LEVELS  
BOHR THEORY

EMISSION SPECTRA  
FINE STRUCTURE  
#FREQUENCIES  
HYPERFINE STRUCTURE  
INFRARED SPECTRA  
LIGHT (VISIBLE RADIATION)  
LINES  
MOLECULAR SPECTROSCOPY  
PRESSURE BROADENING  
RAMAN SPECTRA  
RAMAN SPECTROSCOPY  
SOLAR SPECTRA  
SPECTRAL BANDS  
SPECTRAL EMISSION  
SPECTRAL ENERGY DISTRIBUTION  
SPECTRAL LINE WIDTH  
SPECTRAL RESOLUTION  
SPECTROGRAMS  
SPECTROM ANALYSIS  
STARK EFFECT  
STELLAR SPECTRA  
ULTRAVIOLET SPECTRA  
LINEAR ACCELERATORS  
2403 2405  
BT #PARTICLE ACCELERATORS  
BT ACCELERATORS  
ELECTRON ACCELERATORS  
#ION SOURCES  
MULTIPLAFTER DISCHARGES  
NEUTRON SOURCES  
LINEAR AMPLIFIERS  
0701 0902 0905 1002 2311  
BT #AMPLIFIERS  
BT LINEAR CIRCUITS  
LINEAR ARRAYS  
0701 0705 0710 0901  
NT ENDFIRE ARRAYS  
YAGI ANTENNAS  
BT ANTENNA ARRAYS  
#ARRAYS  
BT DIPOLE ANTENNAS  
MULTIPLE BEAM INTERVAL SCANNERS  
PHASED ARRAYS  
LINEAR CIRCUITS  
0902 2304  
BT #CIRCUITS  
BT #AMPLIFIERS  
ELECTRICAL RESISTANCE  
LINEAR AMPLIFIERS  
LINEAR FILTERS  
LINEAR SYSTEMS  
VOLT-AMPERE CHARACTERISTICS  
LINEAR ENERGY TRANSFER (LET)  
0411 2311 2405  
BT ENERGY TRANSFER  
RT #IONIZING RADIATION  
LINEAR EQUATIONS  
1902  
BT #ALGEBRA  
#ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT DETERMINANTS  
EQUATIONS  
FLOQUET THEOREM  
LINEAR TRANSFORMATIONS  
MATRICES (MATHEMATICS)  
OPERATIONAL CALCULUS  
POLYNOMIALS  
LINEAR FILTERS  
0902 0904 2304  
BT #ELECTRIC FILTERS  
RT ADAPTIVE FILTERS  
#ELECTRIC FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
FILTERS  
FREQUENCY RESPONSE  
LINEAR CIRCUITS  
LINEAR SYSTEMS  
NONLINEAR FILTERS  
LINEAR PREDICTION  
1902  
BT #PREDICTIONS  
RT #COMPUTATION  
MATHEMATICAL MODELS  
OPERATIONS RESEARCH  
QUALITY CONTROL  
#STATISTICAL ANALYSIS  
LINEAR PROGRAMMING  
0802 1902  
BT OPERATIONS RESEARCH  
#RESEARCH  
RT APPLICATIONS OF MATHEMATICS

## LINES OF FORCE

COMPUTER PROGRAMMING  
CONSTRAINTS  
DYNAMIC PROGRAMMING  
FORMALISM  
GAME THEORY  
MATRICES (MATHEMATICS)  
NONLINEAR PROGRAMMING  
NUMERICAL ANALYSIS  
#OPTIMIZATION  
PROGRAMMING  
LINEAR RECEIVERS  
0701 0702 0905  
BT RECEIVERS  
RT FREQUENCY RESPONSE  
LINEAR SYSTEMS  
NYQUIST FREQUENCIES  
LINEAR SYSTEMS  
0902 1002 2304 2402  
RT LINEAR CIRCUITS  
LINEAR FILTERS  
LINEAR RECEIVERS  
NONLINEAR SYSTEMS  
LINEAR TRANSFORMATIONS  
1902  
BT #ALGEBRA  
#FUNCTIONS (MATHEMATICS)  
RT FOURIER ANALYSIS  
JORDAN FORM  
LINEAR EQUATIONS  
MATRICES (MATHEMATICS)  
ORTHOGONAL FUNCTIONS  
SCHWARTZ INEQUALITY  
VECTOR SPACES  
LINEAR VIBRATION  
0101 2308 2311  
BT STRUCTURAL VIBRATION  
#VIBRATION  
RT FREE VIBRATION  
MISSILE VIBRATION  
RANDOM VIBRATION  
VIBRATION MODE  
LINEARITY  
1902 2311 3408  
NT COLLINEARITY  
RT ACCURACY  
CONSISTENCY  
DIFFERENTIAL EQUATIONS  
#DYNAMIC CHARACTERISTICS  
ERRORS  
#FUNCTIONS (MATHEMATICS)  
INSTRUMENT ERRORS  
LINEARIZATION  
NONLINEARITY  
TOLERANCES (MECHANICS)  
VARIABILITY  
LINEARIZATION  
1902 2311  
RT BERNOULLI THEOREM  
EQUATIONS  
GALERKIN METHOD  
LINEARITY  
SIMPLIFICATION  
LINEN  
1811  
BT FABRICS  
#FIBERS  
TEXTILES  
RT ORGANIC MATERIALS  
LINERS  
USE LININGS  
LINES  
0701 0904 1411 1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DELAY LINES  
LINE SPECTRA  
LINES OF FORCE  
PIPELINES  
TERMINATOR LINES  
TETHERLINES  
#TRANSMISSION LINES  
LINES (GEOMETRY)  
1902  
NT CHORDS (GEOMETRY)  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT RADII  
RECIPROCAL THEOREMS  
SEGMENTS  
LINES OF FORCE  
1309 2304 2307 2308 2311

## LING-TEMCO-VOUGHT AIRCRAFT

RT CONJUGATE POINTS  
FORCE  
LINES  
MAGNETIC CIRCUITS  
MAGNETIC DOMAINS  
#MAGNETIC FIELDS  
MAGNETIC FLUX  
MAGNETIC MIRRORS  
#MAGNETIC PROPERTIES  
MAGNETOSTATIC FIELDS  
NONUNIFORM MAGNETIC FIELDS  
LING-TEMCO-VOUGHT AIRCRAFT  
0207  
UP LING-TEMCO-VOUGHT MILITARY AIRCRAFT  
LTV AIRCRAFT  
RT A-7 AIRCRAFT  
P-8 AIRCRAFT  
XC-142 AIRCRAFT  
RT AIRCRAFT  
LING-TEMCO-VOUGHT MILITARY AIRCRAFT  
USE LING-TEMCO-VOUGHT AIRCRAFT  
#LINGUISTICS  
0408 0410 3405  
NT MACHINE TRANSLATION  
PHONEMES  
PHONEMICS  
SEMANTICS  
SENTENCES  
SYLLABLES  
SYNTAX  
WORDS (LANGUAGE)  
RT #LANGUAGES  
ORTHOGRAPHY  
#SPEECH  
LINING PROCESSES  
1507 2806 3202  
RT COATING  
#COATINGS  
INSULATION  
LININGS  
SEALING  
TUNNELING (EXCAVATION)  
LININGS  
1507 2806 3202  
UP LINES  
RT ROCKET LININGS  
RT BUSHINGS  
CASING  
#COATINGS  
INSERTS  
INSULATION  
JACKETS  
LINING PROCESSES  
SHEATHS  
#SHIELDING  
TUBES  
LINKAGES  
1504  
RT CAMS  
CONNECTORS  
COUPLING  
COUPLINGS  
ECCENTRICS  
#FASTENERS  
FITTINGS  
#JOINTS (JUNCTIONS)  
LATCHES  
LINKS  
MECHANICAL DEVICES  
UNIONS (CONNECTORS)  
YOKES  
LINKING  
USE JOINING  
LINKS  
1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CHAINS  
LINKAGES  
LINKS (MATHEMATICS)  
LINKS (MATHEMATICS)  
1902  
BT #GEOMETRY  
TOPOLOGY  
RT LINKS  
LIOUVILLE EQUATIONS  
1902 1905 2308  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT PLASMA PHYSICS

#PLASMAS (PHYSICS)  
STATISTICAL MECHANICS  
LIOUVILLE THEOREM  
1902 1905 2308  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#THEOREMS  
LIP READING  
0702  
BT #COMMUNICATING  
READING  
LIPOD METABOLISM  
0404 1808  
BT #METABOLISM  
PROTEIN METABOLISM  
RT NUTRIENTS  
OILS  
LIPIDS  
0403 0603 1808  
RT #ESTERS  
GLYCEROLS  
MYELIN  
NUTRIENTS  
LIPOIC ACID  
0403 1808  
BT #ACIDS  
FATTY ACIDS  
#ORGANIC COMPOUNDS  
LIPOPROTEINS  
0403 1808  
BT #PROTEINS  
LIPS (ANATOMY)  
0404 0405 0506 0508  
RT FACE (ANATOMY)  
HEAD (ANATOMY)  
LIPSCHITZ CONDITION  
1902  
BT #ANALYSIS (MATHEMATICS)  
CONDITIONS  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS  
LIQUEFACTION  
0603 2311 3407  
BT #PHASE TRANSFORMATIONS  
RT CONDENSATION  
CONVERSION  
JET CONDENSERS  
MELTING  
NONCONDENSIBLE GASES  
THIXOTROPY  
LIQUEFIED GASES  
0603 1202 1203 2702  
RT LIQUID AMMONIA  
LIQUID HELIUM  
LIQUID HYDROGEN  
LIQUID NEON  
LIQUID NITROGEN  
LIQUID OXYGEN  
BT #GASES  
#LIQUIDS  
RT CONDENSATES  
CONDENSERS (LIQUIFIERS)  
CRYOGENIC ROCKET PROPELLANTS  
CRYOGENICS  
GAS MIXTURES  
LIQUID ROCKET PROPELLANTS  
LIQUID AIR  
1203  
BT AIR  
LIQUID AIR CYCLE ENGINES  
2804 2808 3103  
UP LACE (ENGINE)  
BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT AEROSPACEPLANES  
ASTROPLANE  
HYDROGEN OXYGEN ENGINES  
SUSTAINER ROCKET ENGINES  
TURBOROCKET ENGINES  
LIQUID ALLOYS  
0603 1701 1703 1704  
BT #ALLOYS  
RT LIQUID METALS  
#METALS  
LIQUID AMMONIA  
0603 1804 2702 2804  
BT AMMONIA  
#GASES  
#INORGANIC COMPOUNDS  
LIQUEFIED GASES  
#LIQUIDS

## NASA THESAURUS (ALPHABETICAL LISTING)

#NITROGEN COMPOUNDS  
RT #FUELS  
LIQUID ATOMIZATION  
0602 2311 3407  
RT LIQUID BREATHING  
LIQUID BEARINGS  
1501 1503 2311  
BT #BEARINGS  
RT LUBRICATION  
LIQUID BREATHING  
1202 2804 2808  
BT RESPIRATION  
RT ACCLIMATIZATION  
LIQUID ATOMIZATION  
PRESSURE BREATHING  
RESUSCITATION  
LIQUID COOLED REACTORS  
2203 2204  
NT ADVANCED SODIUM COOLED REACTOR  
BOILING WATER REACTORS  
BORAX 5 REACTOR  
EXPERIMENTAL BOILING WATER REACTORS  
EXPERIMENTAL BREEDER REACTOR 1  
EXPERIMENTAL BREEDER REACTOR 2  
EXPERIMENTAL ORGANIC COOLED  
REACTORS  
HAIDEN BOILING WATER REACTOR  
HEAVY WATER COMPONENTS TEST  
REACTORS  
HEAVY WATER REACTORS  
LITHIUM COOLED REACTOR EXPERIMENT  
LOS ALAMOS MOLTEN PLUTONIUM REACTOR  
LOS ALAMOS WATER BOILER REACTOR  
MILITARY COMPACT REACTORS  
NRX REACTORS  
ORGANIC COOLED REACTORS  
PATHFINDER NUCLEAR REACTOR  
PLUM BROOK REACTOR  
PLUTONIUM RECYCLE TEST REACTOR  
PRESSURIZED WATER REACTORS  
SENN REACTOR  
SODIUM GRAPHITE REACTORS  
SPECTRAL SHIFT CONTROL REACTOR  
SPERT REACTORS  
WATER COOLED REACTORS  
ZERO POWER REACTOR 2  
ZERO POWER REACTOR 3  
ZERO POWER REACTOR 6  
ZERO POWER REACTOR 7  
ZERO POWER REACTOR 9  
ZERO POWER REACTORS  
BT #NUCLEAR REACTORS  
RT SODIUM COOLING  
SODIUM REACTOR EXPERIMENT  
LIQUID COOLING  
0508 1803 3105 3303 3404  
(COOLING WITH LIQUIDS)  
NT FILM COOLING  
BT #COOLING  
RT AIR COOLING  
COOLANTS  
COOLING SYSTEMS  
SODIUM COOLING  
SWEAT COOLING  
THERMAL POLLUTION  
LIQUID CRYSTALS  
2601  
BT #CRYSTALS  
RT ANISOTROPIC FLUIDS  
CHOLESTEROL  
LIQUID PHASES  
LIQUID DROPS  
USE DROPS (LIQUIDS)  
LIQUID DYNAMICS  
USE FLUID DYNAMICS  
LIQUID FLOW  
LIQUID FILLED SHELLS  
1202 1204 3203  
BT #SHELLS (STRUCTURAL FORMS)  
RT LIQUID ROCKET PROPELLANTS  
LIQUID SLOSHING  
PROPELLANT TANKS  
REINFORCED SHELLS  
SHELL STABILITY  
STORAGE  
#TANKS (CONTAINERS)  
VESSELS  
LIQUID FLOW  
1202  
UP LIQUID DYNAMICS  
NT OPEN CHANNEL FLOW  
WATER FLOW

# NASA THESAURUS (ALPHABETICAL LISTING)

# LIQUID PROPELLANT ROCKET ENGINES

BT #FLUID FLOW  
 RT CRITICAL FLOW  
 GAS FLOW  
 HEAD (FLUID MECHANICS)  
 HEAD FLOW  
 LAMINAR FLOW  
 LIQUID INJECTION  
 MASS FLOW  
 MULTIPHASE FLOW  
 NONNEWTONIAN FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 PRESSURE HEADS  
 RHEOLOGY  
 SINGLE-PHASE FLOW  
 SOROT COEFFICIENT  
 STEADY FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 LIQUID-GAS MIXTURES  
 0603 1202 1203  
 NT AEROSOLS  
 POG  
 BT DISPERSIONS  
 #MIXTURES  
 RT BINARY MIXTURES  
 GAS MIXTURES  
 LIQUID PHASES  
 LIQUID SURFACES  
 LIQUID-VAPOR INTERFACES  
 MENISCI  
 SOLUBILITY  
 VAPOR PHASES  
 VAPOR PRESSURE  
 LIQUID HELIUM  
 0603  
 BT #CHEMICAL ELEMENTS  
 CRYOGENIC FLUIDS  
 #GASES  
 HELIUM  
 LIQUEFIED GASES  
 #LIQUIDS  
 RARE GASES  
 RT CRYOSTATS  
 SUPERFLUIDITY  
 TWO FLUID MODELS  
 LIQUID HELIUM 2  
 USE HELIUM ISOTOPES  
 LIQUID HYDROGEN  
 0603 2702 2804  
 BT #CHEMICAL ELEMENTS  
 CRYOGENIC FLUIDS  
 #GASES  
 HYDROGEN  
 LIQUEFIED GASES  
 #LIQUIDS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 #FUELS  
 HYDROGEN FUELS  
 LIQUID INJECTION  
 1202 2502 2801 2804 2808  
 NT WATER INJECTION  
 BT FLUID INJECTION  
 #INJECTION  
 RT FILM COOLING  
 FUEL INJECTION  
 FUEL SPRAYS  
 LIQUID FLOW  
 MIXING  
 PROPELLANT SPRAYS  
 THRUST VECTOR CONTROL  
 LIQUID LASERS  
 0603 1601 3404  
 BT LASERS  
 #STIMULATED EMISSION DEVICES  
 RT CHEMICAL LASERS  
 INFRARED LASERS  
 ORGANIC LASERS  
 LIQUID LEVELS  
 0603 2311  
 RT LIQUID SURFACES  
 LIQUID-LIQUID INTERFACES  
 0603 1202 1204  
 BT #BOUNDARIES  
 FLUID BOUNDARIES  
 #INTERFACES  
 RT BOUNDARY LAYERS

FREE BOUNDARIES  
 HEAT TRANSFER  
 INTERFACE STABILITY  
 INTERFACIAL ENERGY  
 INTERFACIAL TENSION  
 LIQUID SURFACES  
 PRESSURE GRADIENTS  
 SOLUBILITY  
 LIQUID MERCURY  
 USE MERCURY (METAL)  
 LIQUID METAL COOLED REACTORS  
 2202 2203 2204  
 UP LMCH (REACTORS)  
 NT ADVANCED SODIUM COOLED REACTOR  
 EXPERIMENTAL BREEDER REACTOR 1  
 EXPERIMENTAL BREEDER REACTOR 2  
 LITHIUM COOLED REACTOR EXPERIMENT  
 LOS ALAMOS MOLTON PLUTONIUM REACTOR  
 MILITARY COMPACT REACTORS  
 SODIUM GRAPHITE REACTORS  
 BT #NUCLEAR REACTORS  
 RT ENRICO FERMI ATOMIC POWER PLANT  
 SODIUM  
 SODIUM REACTOR EXPERIMENT  
 LIQUID METALS  
 0603 1703 1704  
 NT LIQUID POTASSIUM  
 LIQUID SODIUM  
 MERCURY (METAL)  
 MERCURY VAPOR  
 BT #LIQUIDS  
 #METALS  
 RT CASTING  
 LIQUID ALLOYS  
 LUBRICANTS  
 MELTING  
 METAL VAPORS  
 LIQUID NEON  
 0603  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 LIQUEFIED GASES  
 #LIQUIDS  
 NEON  
 RARE GASES  
 LIQUID NITROGEN  
 0603  
 BT #CHEMICAL ELEMENTS  
 CRYOGENIC FLUIDS  
 #GASES  
 LIQUEFIED GASES  
 #LIQUIDS  
 NITROGEN  
 LIQUID OXIDIZERS  
 0602 0603 3301  
 BT #LIQUIDS  
 #OXIDIZERS  
 RT LIQUID ROCKET PROPELLANTS  
 ROCKET OXIDIZERS  
 LIQUID OXYGEN  
 0603 2702  
 UP LOX (OXYGEN)  
 BT CRYOGENIC FLUIDS  
 #GASES  
 LIQUEFIED GASES  
 #LIQUIDS  
 #OXIDIZERS  
 OXYGEN  
 RT CRYOGENIC ROCKET PROPELLANTS  
 FLOX  
 ROCKET OXIDIZERS  
 LIQUID PHASES  
 0603 1202  
 RT #ALLOYS  
 CRITICAL PRESSURE  
 EUTECTICS  
 LIQUID CRYSTALS  
 LIQUID-GAS MIXTURES  
 LIQUID-SOLID INTERFACES  
 #LIQUIDS  
 LIQUIDUS  
 MELTING POINTS  
 PHASE DIAGRAMS  
 PHASES  
 SOLID PHASES  
 SOLID SOLUTIONS  
 SOLIDUS  
 SOLUBILITY  
 SUPERCRITICAL PRESSURES  
 TRANSITION TEMPERATURE  
 VAPOR PHASES

LIQUID POTASSIUM  
 0603 1503  
 BT ALKALI METALS  
 #CHEMICAL ELEMENTS  
 LIQUID METALS  
 #LIQUIDS  
 POTASSIUM  
 LIQUID PROPELLANT ROCKET ENGINES  
 2804 2808  
 NT AJ-10 ENGINE  
 BRISTOL-SIDDELEY MK 301 ENGINE  
 F-1 ROCKET ENGINE  
 H-1 ENGINE  
 HYDRAZINE ENGINES  
 HYDROGEN OXYGEN ENGINES  
 J-2 ENGINE  
 LIQUID AIR CYCLE ENGINES  
 LR-59-AJ-13 ENGINE  
 LR-87-AJ-3 ENGINE  
 LR-87-AJ-5 ENGINE  
 LR-91-AJ-3 ENGINE  
 LR-91-AJ-5 ENGINE  
 LR-62 ENGINE  
 LR-99 ENGINE  
 LR-62-RM-2 ENGINE  
 M-1 ENGINE  
 MA-2 ENGINE  
 MA-3 ENGINE  
 MA-5 ENGINE  
 RL-10-A-1 ENGINE  
 RL-10-A-3 ENGINE  
 RL-10 ENGINES  
 X-405 ENGINE  
 XLR-81-BA-13 ENGINE  
 XLR-58 ENGINE  
 XLR-99 ENGINE  
 YLR-91-AJ-1 ENGINE  
 YLR-115 ENGINE  
 BT #ENGINES  
 ROCKET ENGINES  
 RT ABLESTAR LAUNCH VEHICLE  
 ATLAS SLV-3 LAUNCH VEHICLE  
 BLACK KNIGHT ROCKET VEHICLE  
 BLUE STEEL MISSILE  
 BLUE STREAK LAUNCH VEHICLE  
 BLUE STREAK MISSILE  
 BOMARC A MISSILE  
 BOMARC B MISSILE  
 BOOSTER ROCKET ENGINES  
 CENTAUR LAUNCH VEHICLE  
 CORPORAL MISSILE  
 CORVUS MISSILE  
 DIAMANT LAUNCH VEHICLE  
 DORNIER PARAGLIDER ROCKET VEHICLE  
 DUCTED ROCKET ENGINES  
 HYBRID PROPELLANT ROCKET ENGINES  
 HYLAR STAR ROCKET VEHICLE  
 INTERNAL COMBUSTION ENGINES  
 JUNO 1 LAUNCH VEHICLE  
 JUNO 2 LAUNCH VEHICLE  
 JUNO 5 LAUNCH VEHICLE  
 JUNO LAUNCH VEHICLES  
 JUPITER C ROCKET VEHICLE  
 JUPITER MISSILE  
 LANCE MISSILE  
 METEOR 1 ROCKET VEHICLE  
 NAVARO MISSILE  
 NIKE-AJAX MISSILE  
 NOMAD LAUNCH VEHICLE  
 NOVA LAUNCH VEHICLES  
 PROPELLANT TANKS  
 RESTARTABLE ROCKET ENGINES  
 RETTOROCKET ENGINES  
 SATURN S-1B STAGE  
 SATURN S-4B STAGE  
 SATURN S-1C STAGE  
 SATURN S-1 STAGE  
 SATURN S-2 STAGE  
 SATURN S-4 STAGE  
 SATURN STAGES  
 SOLID PROPELLANT ROCKET ENGINES  
 SPARROW 3 MISSILE  
 SUSTAINER ROCKET ENGINES  
 TALOS MISSILE  
 THOR ABLE ROCKET VEHICLE  
 THOR AGENA LAUNCH VEHICLE  
 THOR DELTA LAUNCH VEHICLE  
 THOR LAUNCH VEHICLES  
 THORAD LAUNCH VEHICLES  
 TITAN ICBM  
 TITAN LAUNCH VEHICLES  
 V-1 MISSILE



# LIQUID ROCKET PROPELLANTS

V-2 MISSILE  
VANGUARD 2 LAUNCH VEHICLE  
VEGA LAUNCH VEHICLE  
VERNIER ENGINES  
VERONIQUE ROCKET VEHICLES  
VIKING ROCKET VEHICLE  
WHITE LANCE MISSILE

LIQUID ROCKET PROPELLANTS  
0603 2702 2804

UF BIPROPELLANTS  
TRIPROPELLANTS  
NT AEROZINE  
CRYOGENIC ROCKET PROPELLANTS  
GELLED ROCKET PROPELLANTS  
HYPERGOLIC ROCKET PROPELLANTS  
MONOPROPELLANTS  
RP-1 ROCKET PROPELLANTS  
SLURRY PROPELLANTS

BT #FUELS  
#LIQUIDS  
#PROPELLANTS  
ROCKET PROPELLANTS  
RT AIRCRAFT FUELS  
CHLORINE FLUORIDES  
FUEL TANK PRESSURIZATION  
GASEOUS ROCKET PROPELLANTS  
HIGH ENERGY PROPELLANTS  
HYBRID PROPELLANTS  
HYDRAZINES  
HYDROGEN FUELS  
LIQUEFIED GASES  
LIQUID FILLED SHELLS  
LIQUID OXIDIZERS  
LIQUID SLOSHING  
NITROGEN TETROXIDE  
PROPELLANT SPRAYS  
SOLID ROCKET PROPELLANTS  
STORABLE PROPELLANTS

LIQUID ROTATION  
USE ROTATING LIQUIDS  
LIQUID SLOSHING  
1202 1204  
UF SLOSHING  
RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
BAFFLES  
CONTROLLABILITY  
FUEL CONTROL  
FUEL TANKS  
INTERFACE STABILITY  
LIQUID FILLED SHELLS  
LIQUID ROCKET PROPELLANTS  
PROPELLANT TANKS  
PROPELLANT TRANSFER  
ROTATING FLUIDS  
SPACECRAFT STABILITY  
STORAGE STABILITY  
TANK GEOMETRY

LIQUID SODIUM  
0603 1803  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
LIQUID METALS  
#LIQUIDS  
SODIUM

LIQUID-SOLID INTERFACES  
0603 1202 2308  
BT #BOUNDARIES  
FLUID BOUNDARIES  
#INTERFACES  
RT BOUNDARY LAYERS  
FLUID FILMS  
FUSION  
HEAT TRANSFER  
INTERFACE STABILITY  
LIQUID PHASES  
LIQUID SURFACES  
MELTING  
MENISCI  
METAL SURFACES  
SOLID PHASES  
SOLID-SOLID INTERFACES

LIQUID SURFACES  
1202 2311  
NT MENISCI  
RT FLUID BOUNDARIES  
FREE BOUNDARIES  
INTERFACIAL TENSION  
JET BOUNDARIES  
LIQUID-GAS MIXTURES  
LIQUID LEVELS

LIQUID-LIQUID INTERFACES  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES  
SOLID SURFACES  
#SURFACE WAVES  
SURFACES

LIQUID-VAPOR EQUILIBRIUM  
0602 0603  
UF VAPOR LIQUID EQUILIBRIUM  
RT EQUILIBRIUM  
THERMODYNAMIC EQUILIBRIUM  
#VAPORS

LIQUID-VAPOR INTERFACES  
0603 1202 1203  
BT #BOUNDARIES  
FLUID BOUNDARIES  
#INTERFACES  
RT EVAPORATION  
FREE BOUNDARIES  
HEAT TRANSFER  
INTERFACE STABILITY  
LIQUID-GAS MIXTURES  
LIQUID SURFACES  
MENISCI  
PRESSURE GRADIENTS  
SOLUBILITY  
VAPOR PHASES  
VAPOR PRESSURE

#LIQUIDS  
0603 1202 1704 1805 2311 2701 2804  
NT AEROZINE  
CRYOGENIC FLUIDS  
CRYOGENIC ROCKET PROPELLANTS  
FERMI LIQUIDS  
FLOY  
GELLED ROCKET PROPELLANTS  
HYDRAULIC FLUIDS  
HYPERGOLIC ROCKET PROPELLANTS  
LIQUEFIED GASES  
LIQUID AMMONIA  
LIQUID HELIUM  
LIQUID HYDROGEN  
LIQUID METALS  
LIQUID NEON  
LIQUID NITROGEN  
LIQUID OXIDIZERS  
LIQUID OXYGEN  
LIQUID POTASSIUM  
LIQUID ROCKET PROPELLANTS  
LIQUID SODIUM  
MERCURY (METAL)  
MERCURY VAPOR  
MONOPROPELLANTS  
ORGANIC LIQUIDS  
ROTATING LIQUIDS  
RP-1 ROCKET PROPELLANTS  
SKYDROL (TRADEMARK)  
SLURRY PROPELLANTS

RT FLUIDS  
GLOBULES  
GLYCEROLS  
LIQUID PHASES  
PHASE DIAGRAMS  
#POTABLE LIQUIDS  
VAPOR PHASES  
WATER

LIQUIDS  
1701 3304  
RT CRYSTALLIZATION  
LIQUID PHASES  
MELTING POINTS  
PHASE DIAGRAMS  
SOLID PHASES  
SOLID SOLUTIONS  
SOLIDUS

LISTS  
0802 0803 1303 3405 3406  
RT CATALOGS  
#DISPLAY DEVICES  
ENUMERATION  
INDEXES (DOCUMENTATION)  
PRINTOUTS

LITERATURE  
3402 3403 3405  
NT BIOGRAPHY  
DOCUMENTATION  
PROCEEDINGS  
RT BIBLIOGRAPHIES  
#DOCUMENTS  
INDEXES (DOCUMENTATION)  
#KNOWLEDGE  
LIBRARIES

# NASA THESAURUS (ALPHABETICAL LISTING)

PAPERS  
PHILOSOPHY  
LITHERGOL ROCKET ENGINES  
2806 2808, 2809  
BT #ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
LITHERGOLIC PROPELLANTS  
USE HYBRID PROPELLANTS  
LITHIASIS  
0405 0408  
BT #DISEASES

LITHIUM  
1703  
BT LITHIUM ISOTOPES  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
#METALS

LITHIUM ALLOYS  
0603 1701  
BT #ALLOYS  
LITHIUM ALUMINUM HYDRIDES  
0603 1804  
BT #ALUMINUM COMPOUNDS  
HYDRIDES  
#HYDROGEN COMPOUNDS  
#LITHIUM COMPOUNDS  
LITHIUM HYDRIDES  
METAL HYDRIDES  
RT POWDERED ALUMINUM

LITHIUM BORATES  
0603 1804  
BT BORATES  
#BORON COMPOUNDS  
#LITHIUM COMPOUNDS

LITHIUM CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#LITHIUM COMPOUNDS  
METAL HALIDES

#LITHIUM COMPOUNDS  
0603 1804  
NT LITHIUM ALUMINUM HYDRIDES  
LITHIUM BORATES  
LITHIUM CHLORIDES  
LITHIUM FLUORIDES  
LITHIUM HYDRIDES  
LITHIUM HYDROXIDES  
LITHIUM OXIDES  
LITHIUM PEROCHLORATES  
LITHIUM SULFATES  
ORGANIC LITHIUM COMPOUNDS  
SPODUMENE

RT ALKALI METAL COMPOUNDS  
METAL COMPOUNDS  
METAL FUELS

LITHIUM COOLED REACTOR EXPERIMENT  
1803 2203 2204  
UF LCRE REACTOR  
BT LIQUID COOLED REACTORS  
LIQUID METAL COOLED REACTORS  
#NUCLEAR REACTORS

LITHIUM FLUORIDES  
0603 1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#LITHIUM COMPOUNDS  
METAL HALIDES

LITHIUM HYDRIDES  
0603 1804  
NT LITHIUM ALUMINUM HYDRIDES  
HYDRIDES  
BT #HYDROGEN COMPOUNDS  
#LITHIUM COMPOUNDS  
METAL HYDRIDES

LITHIUM HYDROXIDES  
0603 1804  
BT ALKALIES  
HYDROXIDES  
#LITHIUM COMPOUNDS

LITHIUM ISOTOPES  
0603 1703 2406  
UF LITHIUM 4  
LITHIUM 6  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES

# NASA TREASURES (ALPHABETICAL LISTING)

LITHIUM  
NUCLIDES  
LITHIUM OXIDES  
0603 1804  
BT #CHALCOGENIDES  
#LITHIUM COMPOUNDS  
METAL OXIDES  
OXIDES  
LITHIUM PERCHLORATES  
0603 1804  
BT CHLORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
#LITHIUM COMPOUNDS  
PERCHLORATES  
LITHIUM SULFATES  
0603 1804  
BT #LITHIUM COMPOUNDS  
SULFATES  
#SULFUR COMPOUNDS  
LITHIUM 4  
USE LITHIUM ISOTOPES  
LITHIUM 6  
USE LITHIUM ISOTOPES  
LITHOGRAPHY  
3404  
BT PRINTING  
BT PHOTOMECHANICAL EFFECT  
REPRODUCTION (COPYING)  
LITHOLOGY  
1305 1306 1308  
BT #GEOLOGY  
RT ROCKS  
LITHOSPHERE  
1304 1305 1306 1308  
NT EARTH CORE  
EARTH CRUST  
EARTH MANTLE  
EARTH PLANETARY STRUCTURE  
EARTH SURFACE  
LITTLE JOE 2 LAUNCH VEHICLE  
3103  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT ALGOL ENGINE  
MERCURY PROJECT  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
TX-354 ENGINE  
XM-33 ENGINE  
LITTLE JOHN ROCKET VEHICLE  
3101 3302 3401  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SURFACE TO SURFACE ROCKETS  
RT HERCULES ENGINE  
SOLID PROPELLANT ROCKET ENGINES  
X-235 ENGINE  
LIVER  
0402 0404 0405  
BT #ANATOMY  
ORGANS  
#VISCERA  
RT GASTROINTESTINAL SYSTEM  
GLANDS (ANATOMY)  
LIVERMORE POOL TYPE REACTOR  
2203 2204  
UP LPTR REACTOR  
BT #NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
LIZARDS  
0402  
BT #ANIMALS  
MAMMALS  
POIKILOthermia  
REPTILES  
VERTEBRATES  
LMCR (REACTORS)  
USE LIQUID METAL COOLED REACTORS  
LOAD DISTRIBUTION (FORCES)  
0201 3203  
BT #DISTRIBUTION (PROPERTY)  
RT DISTRIBUTION  
LOAD FACTORS  
USE #LOADS (FORCES)  
LOAD TESTING MACHINES  
1106 1108 1110  
RT LOAD TESTS  
TEST EQUIPMENT  
LOAD TESTS  
1106 1108 1110 3204  
BT COMPRESSION TESTS

CREEP TESTS  
DESTRUCTIVE TESTS  
FATIGUE TESTS  
IMPACT TESTS  
LOAD TESTING MACHINES  
LOADING RATE  
#NONDESTRUCTIVE TESTS  
SHOCK TESTS  
SPIN TESTS  
STATIC TESTS  
TENSILE TESTS  
TESTS  
LOADING  
0101 1704 2308 3201 3203 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP DUMMY LOADS  
RT FEEDING (SUPPLYING)  
FILLING  
INPUT  
LOADING OPERATIONS  
#LOADS (FORCES)  
PAYLOADS  
REFILLING  
REPLENISHMENT  
SHAFTS (MACHINE ELEMENTS)  
SWEEP EFFECT  
LOADING FORCES  
USE #LOADS (FORCES)  
LOADING MOMENTS  
0201 2311 3203  
BT #MOMENTS  
RT AERODYNAMIC LOADS  
BENDING MOMENTS  
FLEXING  
#LOADS (FORCES)  
MASS DISTRIBUTION  
MOMENT DISTRIBUTION  
PRESSURE DISTRIBUTION  
STATIC LOADS  
#STRUCTURAL ANALYSIS  
TORQUE  
LOADING OPERATIONS  
2308 3203  
RT FEEDERS  
LOADING  
MATERIALS HANDLING  
OPERATIONS  
UNLOADING  
LOADING RATE  
0201 2311 3203  
BT #RATES (PER TIME)  
RT IMPACT LOADS  
LOAD TESTS  
#LOADS (FORCES)  
STRAIN RATE  
VELOCITY  
LOADING WAVES  
USE #ELASTIC WAVES  
#LOADS (FORCES)  
#LOADS (FORCES)  
0902 1001 1002 2308 3203  
UP LOAD FACTORS  
LOADING FORCES  
LOADING WAVES  
NT AERODYNAMIC LOADS  
AXIAL COMPRESSION LOADS  
AXIAL LOADS  
BLAST LOADS  
COMPRESSION LOADS  
CYCLIC LOADS  
DYNAMIC LOADS  
GUST LOADS  
IMPACT LOADS  
LANDING LOADS  
RANDOM LOADS  
ROLLING CONTACT LOADS  
SHOCK LOADS  
STATIC LOADS  
THRUST LOADS  
TRANSIENT LOADS  
VIBRATORY LOADS  
WING LOADING  
RT BALLAST (MASS)  
EQUILIBRIUM  
FORCE DISTRIBUTION  
HUGONIOT EQUATION OF STATE  
LOADING  
LOADING MOMENTS  
LOADING RATE  
MASS DISTRIBUTION

# LOCKHEED MODEL 18 AIRCRAFT

MECHANICS (PHYSICS)  
MOMENT DISTRIBUTION  
PAYLOADS  
#PRESSURE  
PRESSURE DISTRIBUTION  
PRESSURE EFFECTS  
SHAFTS (MACHINE ELEMENTS)  
SHEARING  
STRESS CONCENTRATION  
#STRESSES  
WEIGHT (MASS)  
WIND PRESSURE  
LOBES  
0701 0710  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ANTENNA DESIGN  
ANTENNA RADIATION PATTERNS  
BACKLOBES  
LOCAL SCIENTIFIC SURVEY MODULE  
3004 3007  
BT #MODULES  
RT INSTRUMENT PACKAGES  
LUNAR EXPLORATION  
#MEASURING INSTRUMENTS  
LOCALIZATION  
USE POSITION (LOCATION)  
LOCATES SYSTEM  
1904 2102 2104 3006 3107  
UP LOCATION OF AIR TRAFFIC SATELLITES  
RT AIR TRAFFIC CONTROL  
BEACON SATELLITES  
NAVIGATION SATELLITES  
SATELLITE GUIDANCE  
LOCATION  
USE POSITION (LOCATION)  
LOCATION OF AIR TRAFFIC SATELLITES  
USE LOCATES SYSTEM  
LOCI  
1902  
BT ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT CENTERS  
CONICS  
POCI  
POINTS (MATHEMATICS)  
#RESOLUTION  
LOCKHEED AIRCRAFT  
0204 0206 0207  
UP LOCKHEED MILITARY AIRCRAFT  
NT C-121 AIRCRAFT  
C-130 AIRCRAFT  
C-140 AIRCRAFT  
C-141 AIRCRAFT  
CL-823 AIRCRAFT  
EC-121 AIRCRAFT  
ELECTRA AIRCRAFT  
F-94 AIRCRAFT  
P-104 AIRCRAFT  
L-1011 AIRCRAFT  
L-1649 AIRCRAFT  
LOCKHEED MODEL 18 AIRCRAFT  
P-3 AIRCRAFT  
T-33 AIRCRAFT  
U-2 AIRCRAFT  
XH-51 HELICOPTER  
YV-4 AIRCRAFT  
RT AIRCRAFT  
LOCKHEED C-5 AIRCRAFT  
USE C-5 AIRCRAFT  
LOCKHEED CL-823 AIRCRAFT  
USE CL-823 AIRCRAFT  
LOCKHEED CL-595 HELICOPTER  
USE XH-51 HELICOPTER  
LOCKHEED CONSTELLATION AIRCRAFT  
USE C-121 AIRCRAFT  
LOCKHEED 186 HELICOPTER  
USE XH-51 HELICOPTER  
LOCKHEED L-1649 AIRCRAFT  
USE L-1649 AIRCRAFT  
LOCKHEED L-2000 AIRCRAFT  
USE L-2000 AIRCRAFT  
LOCKHEED MILITARY AIRCRAFT  
USE LOCKHEED AIRCRAFT  
LOCKHEED MODEL 18 AIRCRAFT  
0204  
BT LOCKHEED AIRCRAFT  
MONOPLANES  
#TRANSPORT AIRCRAFT

# LOCKHEED U-2 AIRCRAFT

LOCKHEED U-2 AIRCRAFT  
 USE U-2 AIRCRAFT  
 LOCKHEED XV-4A AIRCRAFT  
 USE XV-4 AIRCRAFT  
 LOCKING  
 1504 3407  
 UP INTERLOCKING  
 RT #FASTENERS  
 JOINING  
 LOCKS (FASTENERS)  
 RETAINING  
 LOCKS  
 1102 1202 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIR LOCKS  
 LOCKS (FASTENERS)  
 LOCKS (FASTENERS)  
 1504  
 BT #FASTENERS  
 RT LOCKING  
 LOCKS  
 LOCOMOTION  
 0402 0408 0506 0508  
 UP MOTILITY  
 NT ASTRONAUT LOCOMOTION  
 WALKING  
 RT #NAVIGATION  
 PHYSIOLOGY  
 #PROPULSION  
 LOCOMOTIVES  
 1101 1102 1103 1502  
 RT DIESEL ENGINES  
 #HANDLING EQUIPMENT  
 RAIL TRANSPORTATION  
 WINDSHIELDS  
 LOFAR  
 0705 1109 1304  
 RT SONAR  
 UNDERWATER ACOUSTICS  
 LOFTI SATELLITES  
 USE LOW FREQUENCY TRANSIONOSPHERIC  
 SATELLITES  
 LOFTING  
 0804 1902 3006 3102  
 RT AIRCRAFT DESIGN  
 ASCENT TRAJECTORIES  
 COMPUTERIZED DESIGN  
 DIFFERENTIAL GEOMETRY  
 ENGINEERING DRAWINGS  
 MATHEMATICAL MODELS  
 SPACECRAFT DESIGN  
 STRUCTURAL DESIGN  
 SURFACE GEOMETRY  
 TEMPLATES  
 LOG PERIODIC ANTENNAS  
 0701 0710 0901  
 BT ANTENNAS  
 #CONDUCTORS  
 DIRECTIONAL ANTENNAS  
 RT ANTENNA ARRAYS  
 ANTENNA DESIGN  
 BROADBAND  
 DIPOLE ANTENNAS  
 FREQUENCY RESPONSE  
 LOG SPIRAL ANTENNAS  
 0701 0710 0901  
 BT ANTENNAS  
 #CONDUCTORS  
 SPIRAL ANTENNAS  
 RT DIPOLE ANTENNAS  
 LOGARITHMIC RECEIVERS  
 0701 0905 2304  
 BT RECEIVERS  
 RT #COMMUNICATION EQUIPMENT  
 FREQUENCY RESPONSE  
 INTERMEDIATE FREQUENCY AMPLIFIERS  
 TRANSFER FUNCTIONS  
 LOGARITHMS  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 EXPONENTIAL FUNCTIONS  
 #FUNCTIONS (MATHEMATICS)  
 TRANSCENDENTAL FUNCTIONS  
 RT EXPONENTS  
 LOGIC  
 0703 0801 0802 0804 1001 1002 1201 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

RT ARTIFICIAL INTELLIGENCE  
 AXIONS  
 BOOLEAN ALGEBRA  
 BRANCHING (MATHEMATICS)  
 COMPLEMENTS (MATHEMATICS)  
 FLUID LOGIC  
 FLUIDICS  
 FORMALISM  
 INFORMATION THEORY  
 LOGIC CIRCUITS  
 LOGIC DESIGN  
 #MATHEMATICAL LOGIC  
 PARADOXES  
 PHILOSOPHY  
 PRINCIPLES  
 LOGIC CIRCUITS  
 0902 1201 2304  
 UP LOGIC NETWORKS  
 NT THRESHOLD GATES  
 BT #CIRCUITS  
 RT ADDING CIRCUITS  
 CENTRAL PROCESSING UNITS  
 COMPUTERS  
 COUNTING CIRCUITS  
 DECISIONS  
 DIGITAL COMPUTERS  
 FLUID LOGIC  
 GATES (CIRCUITS)  
 LOGIC  
 LOGIC DESIGN  
 LOGICAL ELEMENTS  
 MATRICES (CIRCUITS)  
 MULTIPLIERS  
 MULTIVIBRATORS  
 NEURAL NETS  
 RELAY  
 SWITCHING CIRCUITS  
 THRESHOLD LOGIC  
 TRANSISTOR CIRCUITS  
 TRANSISTOR LOGIC  
 LOGIC DESIGN  
 0802 0902 2304  
 RT AMPLIFIER DESIGN  
 COMPUTER DESIGN  
 COMPUTER PROGRAMMING  
 COMPUTERIZED DESIGN  
 DESIGN  
 LOGIC  
 LOGIC CIRCUITS  
 LOGICAL ELEMENTS  
 SWITCHING THEORY  
 TRANSISTOR LOGIC  
 LOGIC NETWORKS  
 USE LOGIC CIRCUITS  
 LOGICAL ELEMENTS  
 0802  
 UP DECISION ELEMENTS  
 RT #COMPUTER COMPONENTS  
 ELEMENTS  
 GATES (CIRCUITS)  
 LOGIC CIRCUITS  
 LOGIC DESIGN  
 LOGISTICS  
 3401 3406  
 NT LUNAR LOGISTICS  
 SPACE LOGISTICS  
 RT AIRCRAFT MAINTENANCE  
 ARMY-NAVY INSTRUMENTATION PROGRAM  
 C-5 AIRCRAFT  
 COMMAND AND CONTROL  
 CRANES  
 DEPLOYMENT  
 DOWNTIME  
 ELECTRIC EQUIPMENT  
 FACILITIES  
 INVENTORY MANAGEMENT  
 LOGISTICS MANAGEMENT  
 LOGISTICS OVER THE SHORE (LOTS)  
 CARRIER  
 MAINTENANCE  
 PORTABLE EQUIPMENT  
 RAPID TRANSIT SYSTEMS  
 RESOURCE ALLOCATION  
 #RESOURCES  
 SERVICES  
 STOCKPILING  
 STORAGE  
 #TRANSPORTATION  
 TRAVEL  
 LOGISTICS MANAGEMENT  
 1502 3401 3406  
 NT INVENTORY MANAGEMENT

# NASA THESAURUS (ALPHABETICAL LISTING)

BT #MANAGEMENT  
 RT FACILITIES  
 LOGISTICS  
 MAINTENANCE  
 #RESOURCES  
 SERVICES  
 SPARE PARTS  
 STORAGE  
 LOGISTICS OVER THE SHORE (LOTS) CARRIER  
 3404 3406  
 RT LOGISTICS  
 MILITARY TECHNOLOGY  
 LOH HELICOPTER  
 USE OH-6 HELICOPTER  
 LOKI ROCKET VEHICLE  
 2002 2003 3106 3302 3401  
 BT #ROCKET VEHICLES  
 SINGLE STAGE ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT SOLID PROPELLANT ROCKET ENGINES  
 WASP SOUNDING ROCKET  
 LOLA (SIMULATOR)  
 USE LUNAR ORBIT AND LANDING SIMULATORS  
 LONG RANGE NAVIGATION  
 USE LORAN  
 LORAN D  
 LONG RANGE WEATHER FORECASTING  
 1301 1302 2001 2003 2004  
 BT #FORECASTING  
 #METEOROLOGY  
 WEATHER FORECASTING  
 RT NUMERICAL WEATHER FORECASTING  
 STATISTICAL WEATHER FORECASTING  
 LONG TERM EFFECTS  
 0401 0408 0507 3006 3204  
 UP SECULAR PERTURBATION  
 RT CELESTIAL MECHANICS  
 CLIMATE  
 CLOSED ECOLOGICAL SYSTEMS  
 #CYCLES  
 DURABILITY  
 EFFECTS  
 LIFE (DURABILITY)  
 LIFE SUPPORT SYSTEMS  
 ORBIT PERTURBATION  
 PERFORMANCE  
 PERIODIC VARIATIONS  
 #PERTURBATION  
 STORAGE STABILITY  
 WEATHER  
 LONG WAVE RADIATION  
 0710 2003 2402  
 BT #ELECTROMAGNETIC RADIATION  
 RADIO WAVES  
 RT FAR INFRARED RADIATION  
 MONOCHROMATIC RADIATION  
 SHORT WAVE RADIATION  
 SOLAR RADIATION  
 LONGERONS  
 0201 0202 3203  
 BT #STRUCTURAL MEMBERS  
 RT KEELS  
 REINFORCEMENT (STRUCTURES)  
 RIBS (SUPPORTS)  
 STRINGERS  
 STRUCTURAL STABILITY  
 LONGEVITY  
 0404 3406 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT LIFE (DURABILITY)  
 LIFE SPAN  
 LONGITUDE  
 1303 1305 1902 2103  
 UP MERIDIANS  
 RT SOLAR LONGITUDE  
 RT #COORDINATES  
 GEODETIC COORDINATES  
 LATITUDE  
 POSITION (LOCATION)  
 LONGITUDE MEASUREMENT  
 1409 2102 2103  
 RT LATITUDE MEASUREMENT  
 MEASUREMENT  
 #NAVIGATION  
 POSITIONING  
 LONGITUDINAL CONTROL  
 0104 0201 1403 2102  
 UP PITCH ATTITUDE CONTROL  
 BT #ATTITUDE CONTROL  
 RT AIRCRAFT CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

ALTITUDE CONTROL  
 #AUTOMATIC CONTROL  
 DIRECTIONAL CONTROL  
 HELICOPTER CONTROL  
 LATERAL CONTROL  
 LONGITUDINAL STABILITY  
 MANUAL CONTROL  
 MISSILE CONTROL  
 PITCH (INCLINATION)  
 SATELLITE ATTITUDE CONTROL  
 SATELLITE CONTROL  
 LONGITUDINAL STABILITY  
 0201 1403 2102  
 BT ATTITUDE STABILITY  
 #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 MOTION STABILITY  
 #STABILITY  
 RT AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 DIRECTIONAL STABILITY  
 FLOW STABILITY  
 HOVERING STABILITY  
 LATERAL STABILITY  
 LONGITUDINAL CONTROL  
 PITCH (INCLINATION)  
 PITCHING MOMENTS  
 POGO EFFECTS  
 ROTARY STABILITY  
 SPACECRAFT STABILITY  
 LONGITUDINAL WAVES  
 1202 2308 2311 2402 2403  
 RT #BEAMS (RADIATION)  
 DILATATIONAL WAVES  
 #ELASTIC WAVES  
 ELECTROSTATIC WAVES  
 #FREQUENCIES  
 NORMAL SHOCK WAVES  
 RADIATION  
 SEISMIC WAVES  
 SHOCK WAVES  
 SOLAR RADIATION  
 SOUND WAVES  
 TRANSVERSE WAVES  
 WAVELENGTHS  
 WAVES  
 LOOK ANGLES  
 USE AZIMUTH  
 ELEVATION ANGLE  
 LOOP ANTENNAS  
 0701 0901 2402  
 BT ANTENNAS  
 #CONDUCTORS  
 DIRECTIONAL ANTENNAS  
 AIRCRAFT ANTENNAS  
 LOOPS  
 MONOPOLE ANTENNAS  
 LOOPS  
 0702 0703 0710 0802 0804 0901 1003  
 RT #CIRCUITS  
 CLOSED CYCLES  
 LOOP ANTENNAS  
 TORUSES  
 TRUSSES  
 LOR (RENDEZVOUS)  
 USE LUNAR ORBITAL RENDEZVOUS  
 LORAC NAVIGATION SYSTEM  
 2103  
 BT HYPERBOLIC NAVIGATION  
 #NAVIGATION  
 RADIO NAVIGATION  
 RT DISTANCE MEASURING DEVICES  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 SURFACE NAVIGATION  
 LORAN  
 0702 0706 0707 2102 2103  
 UP LONG RANGE NAVIGATION  
 RT LORAN C  
 LORAN D  
 BT HYPERBOLIC NAVIGATION  
 #NAVIGATION  
 RADIO NAVIGATION  
 RT AIR NAVIGATION  
 DECCA NAVIGATION  
 DISTANCE MEASURING EQUIPMENT  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 POLAR NAVIGATION  
 SOLAR COMPASSES  
 SURFACE NAVIGATION  
 SURVEYS

LORAN C  
 0702 2102 2103  
 BT HYPERBOLIC NAVIGATION  
 LORAN  
 #NAVIGATION  
 RADIO NAVIGATION  
 RT AIR NAVIGATION  
 DECCA NAVIGATION  
 LORAN D  
 #NAVIGATION AIDS  
 LORAN D  
 0702 2102 2103  
 UP LONG RANGE NAVIGATION  
 BT HYPERBOLIC NAVIGATION  
 LORAN  
 #NAVIGATION  
 RADIO NAVIGATION  
 RT AIR NAVIGATION  
 DECCA NAVIGATION  
 LORAN C  
 #NAVIGATION AIDS  
 LORENTZ CONTRACTION  
 1902 2311  
 UP FITZGERALD-LORENTZ CONTRACTION  
 RT RELATIVITY  
 LORENTZ FORCE  
 2307 2403  
 RT CHARGED PARTICLES  
 FORCE  
 #MAGNETIC FIELDS  
 PONDEROMOTIVE FORCES  
 LORENTZ GAS  
 0603 2311  
 BT #GASES  
 RT GAS DYNAMICS  
 IONIZED GASES  
 #KINETIC THEORY  
 LORENTZ TRANSFORMATIONS  
 1902 2311 2402  
 BT #FUNCTIONS (MATHEMATICS)  
 RT DIRAC EQUATION  
 INVARIANCE  
 MANDELSTAM REPRESENTATION  
 LORV  
 USE LOW OBSERVABLE REENTRY VEHICLES  
 LOS ALAMOS MOLTEN PLUTONIUM REACTOR  
 2203 2204  
 BT LIQUID COOLED REACTORS  
 LIQUID METAL COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 LOS ALAMOS TURRET REACTOR  
 USE HIGH TEMPERATURE NUCLEAR REACTORS  
 LOS ALAMOS WATER BOILER REACTOR  
 2203 2204  
 BT BOILING WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 WATER COOLED REACTORS  
 LOSSES  
 0702 0705 0710 0901 1003  
 RT AUDITORY DEFECTS  
 COMMERCE  
 #DAMAGE  
 DEPLETION  
 EDDY CURRENTS  
 ENERGY DISSIPATION  
 IMPAIRMENT  
 INSERTION LOSS  
 LEAKAGE  
 LEGAL LIABILITY  
 LIABILITIES  
 OHMIC DISSIPATION  
 PLASMA LOSS  
 SEEPAGE  
 TRANSMISSION LOSS  
 #WASTES  
 WATER LOSS  
 LOSSLESS EQUIPMENT  
 2304 2307 2311 3408  
 RT LOSSLESS MATERIALS  
 LOSSLESS MATERIALS  
 2304 2307 2311 3408  
 (DIELECTRIC MATERIALS THAT DO NOT  
 DISSIPATE ENERGY OR THAT DO NOT DAMPEN  
 OSCILLATIONS)  
 RT LOSSLESS EQUIPMENT  
 LOST WAX PROCESS  
 USE INVESTMENT CASTING  
 LOTS CARGO SHIPS  
 USE CARGO SHIPS

## LOW DENSITY FLOW

LOUDNESS  
 0408 0506 2301  
 RT ACOUSTICS  
 FLUX DENSITY  
 INTENSITY  
 #LEVEL (QUANTITY)  
 NOISE (SOUND)  
 NOISE REDUCTION  
 POWER SPECTRA  
 SOUND INTENSITY  
 SOUND PRESSURE  
 SOUND WAVES  
 LOUDSPEAKERS  
 0506 0904 2301  
 BT AUDIO EQUIPMENT  
 ELECTROACOUSTIC TRANSDUCERS  
 SOUND TRANSDUCERS  
 #TRANSDUCERS  
 RT MONAURAL SIGNALS  
 RADIO RECEIVERS  
 SOUND GENERATORS  
 LOUISIANA  
 1305  
 BT UNITED STATES OF AMERICA  
 LOUNGES  
 0504 1101 1102  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT MOBILE LOUNGES  
 ROOMS  
 SEATS  
 LOUVERS  
 0202 1504 2806 3303  
 RT APERTURES  
 BAPPLES  
 DIFFUSERS  
 SCREENING  
 SHADES  
 #SHIELDING  
 SHUTTERS  
 SLOTS  
 VENTS  
 LOVE WAVES  
 1304 1308  
 BT #ELASTIC WAVES  
 SEISMIC WAVES  
 RT #SURFACE WAVES  
 LOW ALTITUDE  
 0203 1301  
 BT ALTITUDE  
 RT ELEVATION  
 LOWER ATMOSPHERE  
 LOW ALTITUDE SUPERSONIC VEHICLES  
 USE F-111 AIRCRAFT  
 LOW ASPECT RATIO  
 0101 0102 0201  
 BT ASPECT RATIO  
 #RATIOS  
 LOW ASPECT RATIO WINGS  
 0101 0102 0104 0201  
 UP DIAMOND WINGS  
 MISSILE WINGS  
 RT DELTA WINGS  
 TRAPEZOIDAL WINGS  
 BT #AIRFOILS  
 WINGS  
 RT CRUCIFORM WINGS  
 FIXED WINGS  
 RIGID WINGS  
 WING PLANFORMS  
 LOW CONCENTRATIONS  
 0603  
 RT DILUTION  
 LOW CONDUCTIVITY  
 2302 2304  
 BT ELECTROCONDUCTIVITY  
 RT #ELECTRIC CURRENT  
 ELECTRICAL RESISTIVITY  
 LOW COST  
 3402 3406  
 BT COSTS  
 RT ECONOMY  
 LOW CURRENTS  
 1001 2302 2304  
 BT #ELECTRIC CURRENT  
 RT LOW VOLTAGE  
 LOW DENSITY FLOW  
 1203 2304 2404  
 RT FLOW  
 FLUID DYNAMICS  
 LOW DENSITY RESEARCH

# LOW DENSITY GASES

MOLECULAR FLOW  
 RAREFIED GAS DYNAMICS  
 RAREFIED GASES  
 LOW DENSITY GASES  
 USE RAREFIED GASES  
 LOW DENSITY MATERIALS  
 0604 1704 1801  
 RT ABSORBENTS  
 ABSORBERS (MATERIALS)  
 FOAMS  
 GRANULAR MATERIALS  
 HONEYCOMB CORES  
 HONEYCOMB STRUCTURES  
 LIGHT ELEMENTS  
 LOW DENSITY RESEARCH  
 MATERIALS  
 POLYURETHANE FOAM  
 POROUS MATERIALS  
 POROUS PLATES  
 POWDER METALLURGY  
 LOW DENSITY RESEARCH  
 1106 1107 2311  
 BT #RESEARCH  
 RT BLOWDOWN WIND TUNNELS  
 COLLISIONLESS PLASMAS  
 #COMPOSITE MATERIALS  
 LOW DENSITY FLOW  
 LOW DENSITY MATERIALS  
 LOW DENSITY WIND TUNNELS  
 LOW VACUUM  
 NONUNIFORM PLASMAS  
 #PLASMAS (PHYSICS)  
 RAREFIED GASES  
 SHOCK TUBES  
 SHOCK TUNNELS  
 SHOCK WAVE LUMINESCENCE  
 ULTRAHIGH VACUUM  
 #VACUUM APPARATUS  
 LOW DENSITY WIND TUNNELS  
 1110 1203  
 BT #TEST FACILITIES  
 WIND TUNNELS  
 RT HYPERVELOCITY WIND TUNNELS  
 LOW DENSITY RESEARCH  
 LOW SPEED WIND TUNNELS  
 PLASMA JETS  
 RAREFIED GAS DYNAMICS  
 SHOCK TUBES  
 SHOCK TUNNELS  
 SLIP FLOW  
 SUPERSONIC WIND TUNNELS  
 LOW FINENESS RATIO  
 USE FINENESS RATIO  
 LOW FREQUENCIES  
 0702 0710 2311 2402 0705 0709 0905 1002  
 NT SUBAUDIBLE FREQUENCIES  
 VERY LOW FREQUENCIES  
 BT #FREQUENCIES  
 RADIO FREQUENCIES  
 RT INTERMEDIATE FREQUENCIES  
 LOW PASS FILTERS  
 LOW FREQUENCY BANDS  
 0705 0710 2402  
 RT HIGH FREQUENCIES  
 ULTRAHIGH FREQUENCIES  
 VERY HIGH FREQUENCIES  
 LOW FREQUENCY TRANSIONOSPHERIC SATELLITES  
 0706 3107  
 UF LOFTI SATELLITES  
 BT ARTIFICIAL SATELLITES  
 COMMUNICATION SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 LOW GRAVITY  
 USE REDUCED GRAVITY  
 LOW GRAVITY MANUFACTURING  
 1309 1504 3009 3404 3407  
 BT MANUFACTURING  
 RT CONTAINERLESS MELTS  
 FABRICATION  
 REDUCED GRAVITY  
 SPACE TOOLS  
 TECHNOLOGIES  
 LOW LATITUDES  
 USE TROPICAL REGIONS  
 LOW LEVEL TURBULENCE  
 0101 1202 1203 2311  
 BT ATMOSPHERIC TURBULENCE  
 #TURBULENCE  
 RT HOMOGENEOUS TURBULENCE  
 LOW MASS  
 USE #MASS

# LOW MOLECULAR WEIGHTS

0603 2401 2404  
 BT MOLECULAR WEIGHT  
 RT DIATOMIC MOLECULES  
 #MOLECULES  
 MONATOMIC MOLECULES  
 WEIGHT (MASS)  
 LOW NOISE  
 0408 0704 2301  
 RT PREAMPLIFIERS  
 LOW OBSERVABLE REENTRY VEHICLES  
 0709 3105 3110  
 UF LORV  
 BT #REENTRY VEHICLES  
 RT RADAR CROSS SECTIONS  
 REENTRY  
 REENTRY PHYSICS  
 LOW PASS FILTERS  
 0903 0904 2402  
 BT #ELECTRIC FILTERS  
 RT ELECTROMAGNETIC WAVE FILTERS  
 FILTERS  
 LOW FREQUENCIES  
 MICROWAVE FILTERS  
 OPTICAL FILTERS  
 LOW PRESSURE  
 1202 1203 1408  
 NT HIGH ALTITUDE PRESSURE  
 BT #PRESSURE  
 RT CYCLONES  
 DEPRESSION  
 HIGH ALTITUDE ENVIRONMENTS  
 HIGH PRESSURE  
 HYPOBARIC ATMOSPHERES  
 VACUUM  
 LOW PRESSURE CHAMBERS  
 USE VACUUM CHAMBERS  
 LOW RESISTANCE  
 0101 1001 1202 2304 2311 3303 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #CHEMICAL PROPERTIES  
 ELECTRICAL RESISTANCE  
 FLOW RESISTANCE  
 #MECHANICAL PROPERTIES  
 THERMAL RESISTANCE  
 LOW SPEED  
 0101 1202 2311  
 UF LOW SPEED HANDLING  
 LOW VELOCITY  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT AIRSPEED  
 FLOW VELOCITY  
 GROUND SPEED  
 LANDING SPEED  
 SUBSONIC SPEED  
 LOW SPEED HANDLING  
 USE CONTROLLABILITY  
 LOW SPEED  
 LOW SPEED STABILITY  
 0101 0201 2102  
 BT #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 MOTION STABILITY  
 #STABILITY  
 RT AERODYNAMIC STABILITY  
 AERODYNAMIC STALLING  
 AIRCRAFT STABILITY  
 ATTITUDE STABILITY  
 CONTROLLABILITY  
 DYNAMIC TESTS  
 FLIGHT CHARACTERISTICS  
 FLOW STABILITY  
 HOVERING STABILITY  
 SPACECRAFT STABILITY  
 LOW SPEED WIND TUNNELS  
 0101 1110 1203  
 NT SUBSONIC WIND TUNNELS  
 BT #TEST FACILITIES  
 WIND TUNNELS  
 RT BLOWDOWN WIND TUNNELS  
 LOW DENSITY WIND TUNNELS  
 LOW TEMPERATURE  
 1408 2502 3304  
 BT #TEMPERATURE  
 RT #COOLING  
 CRYOGENICS  
 FREEZING  
 FROST  
 ICE FORMATION

# NASA THESAURUS (ALPHABETICAL LISTING)

REFRIGERATING  
 LOW TEMPERATURE BRAZING  
 1507 1704 3404  
 BT BRAZING  
 FUSION WELDING  
 GAS WELDING  
 #WELDING  
 RT SOLDERING  
 LOW TEMPERATURE ENVIRONMENTS  
 0401 0408 0504 0507 0508  
 BT #ENVIRONMENTS  
 RT COLD STRENGTH  
 COLD WEATHER  
 HIGH ALTITUDE ENVIRONMENTS  
 LUNAR TEMPERATURE  
 MOUNTAIN INHABITANTS  
 THERMAL ENVIRONMENTS  
 LOW TEMPERATURE PHYSICS  
 1803 2302 2303 2311  
 RT CRYOGENICS  
 PHYSICS  
 SOLIDIFIED GASES  
 SUPERCONDUCTIVITY  
 LOW TEMPERATURE TESTS  
 1108 2303  
 BT #ENVIRONMENTAL TESTS  
 RT #CHEMICAL TESTS  
 COLD STRENGTH  
 COLD WEATHER TESTS  
 CRYOSTATS  
 HARDNESS TESTS  
 LUBRICANT TESTS  
 MELTING POINTS  
 #NONDESTRUCTIVE TESTS  
 QUALITY CONTROL  
 TEMPERATURE CONTROL  
 THERMAL EXPANSION  
 THERMAL STABILITY  
 LOW THRUST  
 0201 2801 2808 3006  
 NT MICROTHRUST  
 BT #THRUST  
 RT HIGH THRUST  
 JET THRUST  
 LOW THRUST PROPULSION  
 ROCKET THRUST  
 VARIABLE THRUST  
 LOW THRUST PROPULSION  
 0201 2801 2808  
 NT ELECTROMAGNETIC PROPULSION  
 ELECTROSTATIC PROPULSION  
 ION PROPULSION  
 MAN OPERATED PROPULSION SYSTEMS  
 PHOTONIC PROPULSION  
 PLASMA PROPULSION  
 SOLAR PROPULSION  
 BT #PROPULSION  
 RT ELECTRIC PROPULSION  
 LOW THRUST  
 MICROTHRUST  
 ROCKET THRUST  
 SPACECRAFT PROPULSION  
 VARIABLE THRUST  
 LOW TURBULENCE  
 0201 1110 1202 1203  
 BT #TURBULENCE  
 LOW VACUUM  
 1506  
 (PRESSURES BETWEEN 3.001 AND 1.0 TORR)  
 BT #PRESSURE  
 VACUUM  
 RT HIGH VACUUM  
 LOW DENSITY RESEARCH  
 LOW VELOCITY  
 USE LOW SPEED  
 LOW VISIBILITY  
 0408 0502 0506 2003 2102 2310  
 BT VISIBILITY  
 RT AIRCRAFT LANDING  
 #HAZARDS  
 HAZE  
 INSTRUMENT FLIGHT RULES  
 LIGHT TRANSMISSION  
 LOW VOLTAGE  
 2304  
 BT ELECTRIC POTENTIAL  
 #POTENTIAL ENERGY  
 RT LOW CURRENTS  
 LOW VOLUME RAMJET ENGINES  
 2801 2805  
 BT AIR BREATHING ENGINES  
 #ENGINES

# ASA THESAURUS (ALPHABETICAL LISTING)

GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
RAMJET ENGINES  
TURBINE ENGINES

LOW WEIGHT  
2311 3408  
RT WEIGHTLESSNESS

LOW WING AIRCRAFT  
0101 0104 0201  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT AIRCRAFT CONFIGURATIONS  
GENERAL AVIATION AIRCRAFT  
HYPERSONIC AIRCRAFT  
JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TAILLESS AIRCRAFT  
TRANSPORT AIRCRAFT  
TURBOFAN AIRCRAFT  
TURBOPROP AIRCRAFT

LOWER ATMOSPHERE  
1301 1308 2003  
(ALTITUDE BELOW ABOUT 50 KM)

UP BIOSPHERE  
NT OZONOSPHERE  
BT EARTH ATMOSPHERE  
RT CHENOSPHERE  
HETEROSPHERE  
HOMOSPHERE  
LOW ALTITUDE

LOWER IONOSPHERE  
0710 1302 2003  
NT D REGION  
BT EARTH ATMOSPHERE  
IONOSPHERE  
RT E REGION

LOX (OXYGEN)  
USE LIQUID OXYGEN

LOX-HYDROGEN ENGINES  
USE HYDROGEN OXYGEN ENGINES

LPTR REACTOR  
USE LIVERMORE POOL TYPE REACTOR

LR-59-AJ-13 ENGINE  
2808  
BT BOOSTER ROCKET ENGINES  
ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT BOMARC A MISSILE

LR-87-AJ-3 ENGINE  
2808  
BT BOOSTER ROCKET ENGINES  
ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT TITAN ICBM

LR-87-AJ-5 ENGINE  
2808  
BT BOOSTER ROCKET ENGINES  
ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT TITAN 1 ICBM

LR-91-AJ-3 ENGINE  
2808  
BT ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT TITAN ICBM

LR-91-AJ-5 ENGINE  
2808  
UP XLR-91-AJ-5 ENGINE  
BT ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT TITAN ICBM

LR CIRCUITS  
USE RL CIRCUITS

LR-62 ENGINE  
2808  
UP YLR-62 ENGINE  
BT ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT BULLPUP B MISSILE

LR-99 ENGINE  
2808  
UP YLR-99-RH-1 ENGINE

BT ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT X-15 AIRCRAFT

LR-62-RH-2 ENGINE  
2808  
BT ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT BULLPUP B MISSILE  
BULLPUP MISSILES

LRC CIRCUITS  
USE LRC CIRCUITS

LRV (VEHICLE)  
USE LUNAR ROVING VEHICLES

LSI  
USE LARGE SCALE INTEGRATION

LSSM  
3004 3104 3110  
UP LUNAR SURFACE SCIENTIFIC MODULES  
BT LANDING MODULES  
LUNAR LANDING MODULES  
LUNAR MODULE  
RT APOLLO PROJECT

LTV AIRCRAFT  
USE LING-TEMCO-VOUGHT AIRCRAFT

LUBRICANT TESTS  
1108 1503 3404  
RT ENGINE TESTS  
HIGH TEMPERATURE TESTS  
LOW TEMPERATURE TESTS  
MATERIALS TESTS  
TESTS

LUBRICANTS  
1503 1704 1805  
BT GAS LUBRICANTS  
HIGH TEMPERATURE LUBRICANTS  
LUBRICATING OILS  
SOLID LUBRICANTS  
RT ADDITIVES  
GRAPHITE  
GREASES  
LIQUID METALS  
LUBRICATION  
LUBRICATION SYSTEMS  
MAINTENANCE  
OILS  
LUBRICATING OILS  
0603 1503 3404  
BT LUBRICANTS  
OILS  
RT DETERGENTS  
LUBRICATION  
MINERAL OILS

LUBRICATION  
1503  
BT BOUNDARY LUBRICATION  
SELF LUBRICATION  
SPACECRAFT LUBRICATION  
RT BEARINGS  
ELASTOHYDRODYNAMICS  
ENGINES  
FRICTION REDUCTION  
GEARS  
IMPREGNATING  
LIQUID BEARINGS  
LUBRICANTS  
LUBRICATING OILS  
LUBRICATION SYSTEMS  
MAINTENANCE  
SELF LUBRICATING MATERIALS  
SLIDING  
LUBRICATION SYSTEMS  
1503 3404  
RT AUTOMOBILES  
COOLING SYSTEMS  
INTERNAL COMBUSTION ENGINES  
LUBRICANTS  
LUBRICATION  
PUMPS  
SYSTEMS

LUCITE (TRADEMARK)  
USE POLYMETHYL METHACRYLATE

LUDER BANDS  
USE PLASTIC DEFORMATION  
YIELD POINT

LUGS  
1507  
RT FASTENERS  
HOLDERS  
STUDS (STRUCTURAL MEMBERS)  
SUPPORTS

## LUMINESCENCE

LUMBAR REGION  
0404  
BT REGIONS

LUMENS  
2306 2310 2311  
BT FLUX DENSITY  
PRESSURE  
RADIANT FLUX DENSITY  
RADIATION PRESSURE  
RATES (PER TIME)  
RT LIGHT (VISIBLE RADIATION)  
LUMINANCE  
LUMINESCENCE  
LUMINOSITY  
OPTICAL PROPERTIES  
RADIANCE

LUMINAIRES  
2306  
UP ELECTROLUMINESCENT LAMPS  
LAMPS  
LIGHT BULBS  
LIGHTS  
NT AIRCRAFT LIGHTS  
AIRPORT LIGHTS  
ARC LAMPS  
FLASH LAMPS  
MERCURY LAMPS  
QUARTZ LAMPS  
RUNWAY LIGHTS  
SEARCHLIGHTS  
XENON LAMPS  
BT LIGHTING EQUIPMENT  
RT BALLASTS (IMPEDANCES)  
BULBS  
FIXTURES  
FLARES  
GLOBES  
ILLUMINATING  
LIGHT (VISIBLE RADIATION)  
LIGHT SOURCES  
PROJECTORS  
VISUAL SIGNALS

LUMINANCE  
0605 2306 2310  
(EMISSION RATE PER UNIT AREA OF OP  
VISIBLE RADIATION)  
BT FLUX DENSITY  
LUMINOUS INTENSITY  
PRESSURE  
RADIANT FLUX DENSITY  
RADIATION PRESSURE  
RATES (PER TIME)  
RT BRIGHTNESS  
GLARE  
ILLUMINANCE  
ILLUMINATING  
INTENSITY  
IRRADIANCE  
LIGHT (VISIBLE RADIATION)  
LUMENS  
OPTICAL PROPERTIES  
PHOTOMETRY  
SKY BRIGHTNESS  
SOLAR FLUX DENSITY

LUMINESCENCE  
0603 0605 2306 2310  
UP GLOW  
NOCTILUCENCE  
NT BIOLUMINESCENCE  
CHEMILUMINESCENCE  
ELECTROLUMINESCENCE  
FLUORESCENCE  
LUNAR LUMINESCENCE  
OPTICAL RESONANCE  
PHOSPHORESCENCE  
PHOTOLUMINESCENCE  
SHOCK WAVE LUMINESCENCE  
SONOLUMINESCENCE  
THERMOLUMINESCENCE  
X RAY FLUORESCENCE  
BT DECAY  
EMISSION  
LIGHT EMISSION  
RT AFTERGLOWS  
BRIGHTNESS  
FRAUNHOFER LINE DISCRIMINATORS  
ILLUMINATION  
ILLUMINATORS  
INCANDESCENCE  
LIGHT (VISIBLE RADIATION)  
LUMENS  
LUMINOSITY

# LUMINESCENT INTENSITY

LUMINOUS INTENSITY  
NOCTILUCENT CLOUDS  
OPTICAL TRANSITION  
PLASMA RADIATION  
VISIBILITY  
LUMINESCENT INTENSITY  
USE LUMINOUS INTENSITY  
LUMINOSITY  
0603 0605 2306 2310  
RT BRIGHTNESS  
ELECTROMAGNETIC PROPERTIES  
EMISSION  
EMITTANCE  
ILLUMINANCE  
INCANDESCENCE  
LIGHT (VISIBLE RADIATION)  
LUMENS  
LUMINESCENCE  
PHOSPHENE  
RADIANCE  
RADIANT FLUX DENSITY  
VISIBILITY  
LUMINOUS FLUX DENSITY  
USE LUMINOUS INTENSITY  
LUMINOUS INTENSITY  
0605 2306 2310 2402  
(EMISSION OR DETECTION RATE PER UNIT  
AREA OF VISIBLE RADIATION)  
UF LIGHT INTENSITY  
LUMINESCENT INTENSITY  
LUMINOUS FLUX DENSITY  
NT ILLUMINANCE  
LUMINANCE  
BT FLUX DENSITY  
#PRESSURE  
RADIANT FLUX DENSITY  
RADIATION PRESSURE  
RT #RATES (PER TIME)  
BRIGHTNESS  
EMITTANCE  
FLUX (RATE)  
INCANDESCENCE  
INTENSITY  
IRRADIANCE  
LIGHT (VISIBLE RADIATION)  
LUMINESCENCE  
RADIANCE  
SOLAR FLUX DENSITY  
LUMPING  
0602 1504 3407  
RT AGGLOMERATION  
COAGULATION  
COLLECTION  
#COMPOSITION (PROPERTY)  
LUNAR ATMOSPHERES  
1105 2003 3004 3008  
UF LUNAR IONOSPHERE  
BT #ENVIRONMENTS  
EXTRATERRESTRIAL ENVIRONMENTS  
LUNAR ENVIRONMENT  
RT LUNAR EXPLORATION  
LUNAR TOPOGRAPHY  
MOON  
PLANETARY ATMOSPHERES  
LUNAR BASES  
1105 3004 3007  
RT ASTRONAUTICS  
BASES  
LUNAR EXPLORATION  
LUNAR LANDING  
LUNAR LOGISTICS  
LUNAR SHELTERS  
LUNAR TOPOGRAPHY  
MOON  
#STATIONS  
LUNAR CINEMATOGRAPHY  
USE LUNAR PHOTOGRAPHY  
LUNAR COMMUNICATION  
0707 1105  
NT CIRCUMLUNAR COMMUNICATION  
BT SPACE COMMUNICATION  
#TELECOMMUNICATION  
RT FACSIMILE COMMUNICATION  
INTERPLANETARY COMMUNICATION  
LASERS  
MOON  
OPTICAL COMMUNICATION  
#RADAR  
RADIO COMMUNICATION  
SPACECRAFT COMMUNICATION  
LUNAR COMPOSITION  
1411 3004 3007

NT LUNAR CORE  
BT #COMPOSITION (PROPERTY)  
RT LUNAR CRUST  
LUNAR EVOLUTION  
LUNAR GEOLOGY  
LUNAR LUMINESCENCE  
LUNAR ROCKS  
LUNAR SOIL  
LUNAR TOPOGRAPHY  
MOON  
SELENOLOGY  
LUNAR CORE  
1411 3004 3007  
BT CORES  
LUNAR COMPOSITION  
LUNAR CRUST  
LUNAR GEOLOGY  
SELENOLOGY  
LUNAR CRATERS  
3001 3004 3005 3007  
NT PTOLEMAEUS CRATER  
TYCHO CRATER  
BT #CRATERS  
RT LUNAR CRUST  
LUNAR GEOLOGY  
LUNAR RAYS  
LUNAR SOIL  
LUNAR TOPOGRAPHY  
METEORITE CRATERS  
MOON  
SELENOGRAPHY  
SELENOLOGY  
LUNAR CRUST  
3004 3007 3008  
NT LUNAR CORE  
BT #CRUSTS  
RT EARTH CRUST  
LUNAR COMPOSITION  
LUNAR CRATERS  
LUNAR EVOLUTION  
LUNAR GEOLOGY  
LUNAR LANDING  
LUNAR ROCKS  
LUNAR SOIL  
LUNAR TOPOGRAPHY  
MOON  
SELENOGRAPHY  
SELENOLOGY  
LUNAR DUST  
3001 3004 3007 3008  
BT #DUST  
LUNAR SOIL  
#SOILS  
RT LUNAR GEOLOGY  
LUNAR LANDING  
LUNAR ROCKS  
LUNAR TOPOGRAPHY  
MOON  
SELENOLOGY  
LUNAR ECHOES  
0705 3007 3008  
NT LUNAR RADAR ECHOES  
BT #ECHOES  
RT RADIO ECHOES  
LUNAR ECLIPSES  
3001 3006  
BT ECLIPSES  
RT MOON  
LUNAR EFFECTS  
0705 3004 3005  
UF LUNAR PERTURBATION  
NT LUNAR GRAVITATIONAL EFFECTS  
LUNAR TIDES  
RT EFFECTS  
LUNAR GRAVITATION  
ORBIT PERTURBATION  
LUNAR ENVIRONMENT  
0301 0504 3004  
NT LUNAR ATMOSPHERES  
BT #ENVIRONMENTS  
EXTRATERRESTRIAL ENVIRONMENTS  
RT AEROSPACE ENVIRONMENTS  
BIOASTRONAUTICS  
EXO BIOLOGY  
LIFE SUPPORT SYSTEMS  
LUNAR GRAVITY SIMULATOR  
LUNAR LOGISTICS  
LUNAR TOPOGRAPHY  
MOON  
PLANETARY ENVIRONMENTS  
THERMAL ENVIRONMENTS

# NASA THESAURUS (ALPHABETICAL LISTING)

LUNAR ESCAPE DEVICES  
0502 3004 3009  
RT ESCAPE CAPSULES  
ESCAPE ROCKETS  
LUNAR LANDING MODULES  
LUNAR SHELTERS  
LUNAR EVOLUTION  
1308 3009  
BT #EVOLUTION (DEVELOPMENT)  
RT LUNAR COMPOSITION  
LUNAR CRUST  
LUNAR GEOLOGY  
LUNAR LUMINESCENCE  
LUNAR ROCKS  
LUNAR SEISMOGRAPHS  
MOON  
SELENOLOGY  
LUNAR EXPLORATION  
3004 3007  
BT #EXPLORATION  
RT APOLLO 5 FLIGHT  
APOLLO 6 FLIGHT  
APOLLO 7 FLIGHT  
APOLLO 8 FLIGHT  
APOLLO 9 FLIGHT  
APOLLO 10 FLIGHT  
APOLLO 11 FLIGHT  
APOLLO 12 FLIGHT  
APOLLO 13 FLIGHT  
APOLLO 14 FLIGHT  
APOLLO 15 FLIGHT  
APOLLO 16 FLIGHT  
APOLLO LUNAR EXPERIMENT MODULE  
APOLLO LUNAR SURFACE EXPERIMENTS  
PACKAGE  
APOLLO PROJECT  
BASEP  
EXTRATERRESTRIAL RESOURCES  
LOCAL SCIENTIFIC SURVEY MODULE  
LUNAR ATMOSPHERES  
LUNAR BASES  
LUNAR FLYING VEHICLES  
LUNAR LOGISTICS  
LUNAR MOBILE LABORATORIES  
LUNAR PROGRAMS  
MOON  
SPACE EXPLORATION  
LUNAR EXPLORATION SYSTEM FOR APOLLO  
0507 1105 3004 3104 3409  
UF LESA (LUNAR EXPLORATION SYSTEM)  
RT APOLLO 5 FLIGHT  
APOLLO 6 FLIGHT  
APOLLO 7 FLIGHT  
APOLLO 8 FLIGHT  
APOLLO 9 FLIGHT  
APOLLO 10 FLIGHT  
APOLLO 11 FLIGHT  
APOLLO 12 FLIGHT  
APOLLO 13 FLIGHT  
APOLLO 14 FLIGHT  
APOLLO 15 FLIGHT  
APOLLO 16 FLIGHT  
APOLLO PROJECT  
LUNAR FAR SIDE  
1407 3001 3004  
RT LIBRATION  
LUNAR TOPOGRAPHY  
MOON  
LUNAR FLIGHT  
1105 3004 3009  
BT #SPACE FLIGHT  
RT APOLLO 5 FLIGHT  
APOLLO 6 FLIGHT  
APOLLO 7 FLIGHT  
APOLLO 8 FLIGHT  
APOLLO 9 FLIGHT  
APOLLO 10 FLIGHT  
APOLLO 11 FLIGHT  
APOLLO 12 FLIGHT  
APOLLO 13 FLIGHT  
APOLLO 14 FLIGHT  
APOLLO 15 FLIGHT  
APOLLO 16 FLIGHT  
CIRCUMLUNAR TRAJECTORIES  
CISLUNAR SPACE  
EARTH-MOON TRAJECTORIES  
FLIGHT  
FLYBY MISSIONS  
LUNAR LANDING  
LUNAR LAUNCH  
LUNAR ORBITS  
LUNAR PROGRAMS

# NASA THESAURUS (ALPHABETICAL LISTING)

LUNAR TRAJECTORIES  
 MOON-EARTH TRAJECTORIES  
 #ORBITS  
 LUNAR FLYING VEHICLES  
 3004  
 RT FLIGHT VEHICLES  
 #LIFTING BODIES  
 LUNAR EXPLORATION  
 LUNAR LANDING  
 LUNAR GEOLOGY  
 1306 1308 3001 3004  
 NT LUNAR CORE  
 BT #GEOLOGY  
 RT GEOMORPHOLOGY  
 LUNAR COMPOSITION  
 LUNAR CRATERS  
 LUNAR CRUST  
 LUNAR DUST  
 LUNAR EVOLUTION  
 LUNAR LUMINESCENCE  
 LUNAR MOBILE LABORATORIES  
 LUNAR ROCKS  
 LUNAR SEISMOGRAPHS  
 LUNAR SOIL  
 LUNAR TOPOGRAPHY  
 MOON  
 SEISMOLOGY  
 LUNAR GRAVITATION  
 1309 3004 3008 3009  
 BT GRAVITATION  
 RT LUNAR EFFECTS  
 MOON  
 PLANETARY GRAVITATION  
 LUNAR GRAVITATIONAL EFFECTS  
 3004 3006 3009 3110  
 BT LUNAR EFFECTS  
 LUNAR GRAVITY SIMULATOR  
 0804 1107  
 BT ENVIRONMENT SIMULATORS  
 #SIMULATORS  
 RT GRAVITATION  
 LUNAR ENVIRONMENT  
 LUNAR IONOSPHERE  
 USE LUNAR ATMOSPHERES  
 LUNAR LANDING  
 1105 3004  
 NT APOLLO LUNAR EXPERIMENT MODULE  
 BT #LANDING  
 SPACECRAFT LANDING  
 RT APOLLO 5 FLIGHT  
 APOLLO 6 FLIGHT  
 APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 9 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT  
 APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 CRASH LANDING  
 LUNAR BASES  
 LUNAR CRUST  
 LUNAR DUST  
 LUNAR FLIGHT  
 LUNAR FLYING VEHICLES  
 LUNAR LAUNCH  
 LUNAR MODULE  
 LUNAR MODULE 5  
 LUNAR MODULE 7  
 LUNAR ORBIT AND LANDING SIMULATORS  
 PLANETARY LANDING  
 SOFT LANDING  
 SURVEYOR PROJECT  
 LUNAR LANDING MODULES  
 1105 3004 3104  
 NT LSSM  
 BT LANDING MODULES  
 #LUNAR SPACECRAFT  
 #MODULES  
 #SOFT LANDING SPACECRAFT  
 #SPACECRAFT COMPONENTS  
 SPACECRAFT MODULES  
 RT APOLLO EXTENSION SYSTEM  
 LUNAR ESCAPE DEVICES  
 LUNAR ORBIT AND LANDING SIMULATORS  
 #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 REUSABLE SPACECRAFT  
 #UNMANNED SPACECRAFT

LUNAR LANDING SITES  
 1105 3004 3006  
 BT LANDING SITES  
 #SITES  
 RT LUNAR MARIA  
 LUNAR SOIL  
 LUNAR TOPOGRAPHY  
 MOON  
 SELENOGRAPHY  
 LUNAR LAUNCH  
 1104 1105 3004  
 BT #LAUNCHING  
 ROCKET LAUNCHING  
 RT APOLLO 5 FLIGHT  
 APOLLO 6 FLIGHT  
 APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 9 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT  
 APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 LUNAR FLIGHT  
 LUNAR LANDING  
 LUNAR MODULE ASCENT STAGE  
 LUNAR PROBES  
 ORBITAL LAUNCHING  
 SATURN PROJECT  
 LUNAR LIMB  
 3001 3008  
 RT LIBRATION  
 LIMBS  
 MOON  
 LUNAR LOGISTICS  
 1105 3004 3007 3109  
 BT LOGISTICS  
 RT LIFE SUPPORT SYSTEMS  
 LUNAR BASES  
 LUNAR ENVIRONMENT  
 LUNAR EXPLORATION  
 #LUNAR SPACECRAFT  
 LUNAR SURFACE VEHICLES  
 MANNED LUNAR SURFACE VEHICLES  
 MATERIALS HANDLING  
 LUNAR LUMINESCENCE  
 0605 3001 3004  
 BT #DECAY  
 EMISSION  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT LUNAR COMPOSITION  
 LUNAR EVOLUTION  
 LUNAR GEOLOGY  
 MOON  
 LUNAR MAGNETIC FIELDS  
 2307 3004 3009  
 BT #MAGNETIC FIELDS  
 RT MOON  
 LUNAR MAPS  
 1303 3001 3004  
 BT #MAPS  
 RT ASTRONOMICAL MAPS  
 LUNAR PHOTOGRAPHS  
 MOON  
 SELENOGRAPHY  
 LUNAR MARIA  
 3001 3004  
 BT MARIA  
 RT LUNAR LANDING SITES  
 LUNAR TOPOGRAPHY  
 LUNAR MOBILE LABORATORIES  
 1104 3004 3110  
 UP MOLABS  
 BT #LABORATORIES  
 LUNAR SURFACE VEHICLES  
 #SURFACE VEHICLES  
 RT APOLLO PROJECT  
 LUNAR EXPLORATION  
 LUNAR GEOLOGY  
 MANNED LUNAR SURFACE VEHICLES  
 SELENOGRAPHY  
 LUNAR MODULE  
 3004 3104 3110  
 UP LEM (LUNAR MODULE)  
 NT APOLLO LUNAR EXPERIMENT MODULE  
 LSSM  
 LUNAR MODULE 5  
 LUNAR MODULE 7  
 BT LANDING MODULES

## LUNAR ORBITS

#LUNAR SPACECRAFT  
 #MANNED SPACECRAFT  
 #MODULES  
 #SOFT LANDING SPACECRAFT  
 #SPACECRAFT COMPONENTS  
 SPACECRAFT MODULES  
 RT APOLLO 5 FLIGHT  
 APOLLO 6 FLIGHT  
 APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 9 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT  
 APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 APOLLO SPACECRAFT  
 ASCENT PROPULSION SYSTEMS  
 LUNAR LANDING  
 LUNAR MODULE ASCENT STAGE  
 2808 3004 3006 3106 3109  
 RT ASCENT  
 ASCENT TRAJECTORIES  
 LUNAR LAUNCH  
 ROCKET ENGINES  
 STAGE SEPARATION  
 LUNAR MODULE 5  
 3004 3104 3110  
 BT LANDING MODULES  
 LUNAR MODULE  
 #LUNAR SPACECRAFT  
 #MANNED SPACECRAFT  
 #MODULES  
 #SOFT LANDING SPACECRAFT  
 RT APOLLO SPACECRAFT  
 LUNAR LANDING  
 LUNAR MODULE 7  
 3004 3104 3110  
 BT LANDING MODULES  
 LUNAR MODULE  
 #LUNAR SPACECRAFT  
 #MANNED SPACECRAFT  
 #MODULES  
 #SOFT LANDING SPACECRAFT  
 RT APOLLO SPACECRAFT  
 LUNAR LANDING  
 LUNAR OBSERVATORIES  
 3001 3004 3009  
 BT #OBSERVATORIES  
 RT ASTRONOMICAL OBSERVATORIES  
 LUNAR OCCULTATION  
 1901 2402 3001 3004  
 NT SOLAR ECLIPSES  
 BT #OCCULTATION  
 RT MOON  
 STELLAR OCCULTATION  
 LUNAR ORBIT AND LANDING SIMULATORS  
 1105 1107 3004 3409  
 UP LOLA (SIMULATOR)  
 BT #SIMULATORS  
 RT FLIGHT SIMULATORS  
 LUNAR LANDING  
 LUNAR LANDING MODULES  
 LUNAR ORBITS  
 #LUNAR SPACECRAFT  
 TRAINING SIMULATORS  
 LUNAR ORBITAL RENDEZVOUS  
 1105 3004 3006 3110  
 UP LOR (RENDEZVOUS)  
 BT #MANEUVERS  
 ORBITAL RENDEZVOUS  
 #RENDEZVOUS  
 SIDESLIP  
 SPACE RENDEZVOUS  
 RT EARTH ORBITAL RENDEZVOUS  
 ORBITAL MECHANICS  
 SPACECRAFT TRAJECTORIES  
 LUNAR ORBITER  
 3004 3107 3409  
 BT ARTIFICIAL SATELLITES  
 LUNAR SATELLITES  
 #LUNAR SPACECRAFT  
 ORBITER PROJECT  
 #SATELLITES  
 RT LUNAR PHOTOGRAPHY  
 LUNAR ORBITS  
 3001 3006 3007  
 UP EJECTION  
 BT #ORBITS  
 RT ARTIFICIAL SATELLITES



# LUNAR PERTURBATION

CIRCULAR ORBITS  
CIRCUMLUNAR TRAJECTORIES  
CISLUNAR SPACE  
EARTH-MOON TRAJECTORIES  
EARTH ORBITS  
ELLIPTICAL ORBITS  
EQUATORIAL ORBITS  
LUNAR FLIGHT  
LUNAR ORBIT AND LANDING SIMULATORS  
MOON  
ORBITAL MECHANICS  
PARKING ORBITS  
PERILUNES  
POLAR ORBITS  
SATELLITE ORBITS  
SPACECRAFT ORBITS  
TRANSFER ORBITS

LUNAR PERTURBATION  
USE LUNAR EFFECTS  
LUNAR PHASES  
3001 3004 3006  
RT MOON  
PHASES  
TERMINATOR LINES

LUNAR PHOTOGRAPHS  
1407 3004  
BT PHOTOGRAPHS  
RT ASTRONOMICAL PHOTOGRAPHY  
LUNAR MAPS  
RANGER PROJECT  
SPACEBORNE PHOTOGRAPHY

LUNAR PHOTOGRAPHY  
1407 3004  
UP LUNAR CINEMATOGRAPHY  
BT #IMAGERY  
#PHOTOGRAPHY  
RT ASTRONOMICAL PHOTOGRAPHY  
BLACK AND WHITE PHOTOGRAPHY  
INFRARED PHOTOGRAPHY  
LUNAR ORBITER  
MOON  
RANGER PROJECT  
SPACEBORNE PHOTOGRAPHY

LUNAR PROBES  
1105 3004 3108  
BT LUNIK 1 LUNAR PROBE  
LUNIK 2 LUNAR PROBE  
LUNIK 3 LUNAR PROBE  
LUNIK 4 LUNAR PROBE  
LUNIK 9 LUNAR PROBE  
LUNIK 10 LUNAR PROBE  
LUNIK 11 LUNAR PROBE  
LUNIK 12 LUNAR PROBE  
LUNIK 13 LUNAR PROBE  
LUNIK 14 LUNAR PROBE  
LUNIK LUNAR PROBES  
RANGER LUNAR LANDING VEHICLES  
RANGER 1 LUNAR PROBE  
RANGER 2 LUNAR PROBE  
RANGER 3 LUNAR PROBE  
RANGER 4 LUNAR PROBE  
RANGER 5 LUNAR PROBE  
RANGER 6 LUNAR PROBE  
RANGER 7 LUNAR PROBE  
RANGER 8 LUNAR PROBE  
RANGER 9 LUNAR PROBE  
RANGER 10 LUNAR PROBE  
RANGER LUNAR PROBES  
SURVEYOR 1 LUNAR PROBE  
SURVEYOR 2 LUNAR PROBE  
SURVEYOR 3 LUNAR PROBE  
SURVEYOR 4 LUNAR PROBE  
SURVEYOR 5 LUNAR PROBE  
SURVEYOR 6 LUNAR PROBE  
SURVEYOR LUNAR PROBES  
BT #LUNAR SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RT APOLLO PROJECT  
ATLAS ABL 5 LAUNCH VEHICLE  
LUNAR LAUNCH  
LUNAR PROGRAMS  
#MANEUVERABLE SPACECRAFT  
PIONEER PROJECT  
RANGER PROJECT  
#SOFT LANDING SPACECRAFT  
SURVEYOR PROJECT

LUNAR PROGRAMS  
1105 3004 3409  
BT APOLLO PROJECT  
SURVEYOR PROJECT  
BT #PROGRAMS

SPACE PROGRAMS  
RT LUNAR EXPLORATION  
LUNAR FLIGHT  
LUNAR PROBES  
LUNAR SATELLITES  
#LUNAR SPACECRAFT  
LUNAR RADAR ECHOES  
0710 2402 3004  
UP LUNAR SCATTERING  
BT #ECHOES  
LUNAR ECHOES  
RADAR ECHOES  
LUNAR RADIATION  
2402 2903  
BT #EXTRATERRESTRIAL RADIATION  
RT RADIATION  
LUNAR RAYS  
3004  
(EXCLUDES RADIATION)

RT LUNAR CRATERS  
LUNAR TOPOGRAPHY  
METEORITE CRATERS  
MOON  
RAYS  
SELENOGRAPHY  
LUNAR RECEIVING LABORATORY  
1106 1108  
BT #LABORATORIES  
RT LUNAR ROCKS  
LUNAR SOIL  
LUNAR ROCKS  
1305 1306 1308 3409  
BT ROCKS  
RT LUNAR COMPOSITION  
LUNAR CRUST  
LUNAR DUST  
LUNAR EVOLUTION  
LUNAR GEOLOGY  
LUNAR RECEIVING LABORATORY  
LUNAR SOIL  
LUNAR TOPOGRAPHY  
SELENOGRAPHY  
SELENOLOGY

LUNAR ROVING VEHICLES  
1105 3004  
UP LRV (VEHICLE)  
RT LUNOKHOD LUNAR ROVING VEHICLES  
MANNED LUNAR SURFACE VEHICLES  
BT LUNAR SURFACE VEHICLES  
#SURFACE VEHICLES  
RT PROVING  
RESEARCH VEHICLES  
VEHICLES  
LUNAR SATELLITES  
3004 3107 3110  
BT LUNAR ORBITER  
RT ARTIFICIAL SATELLITES  
#LUNAR SPACECRAFT  
#SATELLITES  
RT LUNAR PROGRAMS  
#MANEUVERABLE SPACECRAFT  
#MANNED SPACECRAFT  
PERILUNES  
POLAR ORBITS  
#UNMANNED SPACECRAFT  
LUNAR SCATTERING  
USE DIFFUSE RADIATION  
LUNAR RADAR ECHOES  
LUNAR SEISMOGRAPHS  
1105 1308 3004  
BT #MEASURING INSTRUMENTS  
#RECORDING INSTRUMENTS  
SEISMOGRAPHS  
VIBRATION METERS  
RT LUNAR EVOLUTION  
LUNAR GEOLOGY

LUNAR SHADOW  
2306 3001 3004  
BT SHADOWS  
RT ECLIPSES  
MOON  
SOLAR ECLIPSES  
LUNAR SHELTERS  
0504 0507 1105  
BT SHELTERS  
RT INFLATABLE STRUCTURES  
LIFE SUPPORT SYSTEMS  
LUNAR BASES  
LUNAR ESCAPE DEVICES  
SURVIVAL  
TUNNELS

# NASA THESAURUS (ALPHABETICAL LISTING)

LUNAR SOIL  
1105 1204 3005  
BT LUNAR DUST  
RT #SOILS  
LUNAR COMPOSITION  
LUNAR CRATERS  
LUNAR CRUST  
LUNAR GEOLOGY  
LUNAR LANDING SITES  
LUNAR RECEIVING LABORATORY  
LUNAR ROCKS  
LUNAR TOPOGRAPHY  
#MINERALS  
MOON  
PENETROMETERS  
#LUNAR SPACECRAFT  
3004 3110  
BT APOLLO SPACECRAFT  
LUNAR LANDING MODULES  
LUNAR MODULE  
LUNAR MODULE 5  
LUNAR MODULE 7  
LUNAR ORBITER  
LUNAR PROBES  
LUNAR SATELLITES  
LUNIK 1 LUNAR PROBE  
LUNIK 2 LUNAR PROBE  
LUNIK 3 LUNAR PROBE  
LUNIK 4 LUNAR PROBE  
LUNIK 9 LUNAR PROBE  
LUNIK 10 LUNAR PROBE  
LUNIK 11 LUNAR PROBE  
LUNIK 12 LUNAR PROBE  
LUNIK 13 LUNAR PROBE  
LUNIK 14 LUNAR PROBE  
LUNIK LUNAR PROBES  
RANGER LUNAR LANDING VEHICLES  
RANGER 1 LUNAR PROBE  
RANGER 2 LUNAR PROBE  
RANGER 3 LUNAR PROBE  
RANGER 4 LUNAR PROBE  
RANGER 5 LUNAR PROBE  
RANGER 6 LUNAR PROBE  
RANGER 7 LUNAR PROBE  
RANGER 8 LUNAR PROBE  
RANGER 9 LUNAR PROBE  
RANGER 10 LUNAR PROBE  
RANGER LUNAR PROBES  
SURVEYOR 1 LUNAR PROBE  
SURVEYOR 2 LUNAR PROBE  
SURVEYOR 3 LUNAR PROBE  
SURVEYOR 4 LUNAR PROBE  
SURVEYOR 5 LUNAR PROBE  
SURVEYOR 6 LUNAR PROBE  
SURVEYOR LUNAR PROBES  
BT APOLLO 5 FLIGHT  
APOLLO 6 FLIGHT  
ARTIFICIAL SATELLITES  
HALO ORBIT SPACE STATION  
LUNAR LOGISTICS  
LUNAR ORBIT AND LANDING SIMULATORS  
LUNAR PROGRAMS  
#MANNED SPACECRAFT  
RENDEZVOUS SPACECRAFT  
#SATELLITES  
#SPACE CAPSULES  
SPACECRAFT  
SURVEYOR PROJECT  
#UNMANNED SPACECRAFT  
LUNAR SURFACE  
USE LUNAR TOPOGRAPHY  
LUNAR SURFACE SCIENTIFIC MODULES  
USE LSSM  
LUNAR SURFACE VEHICLES  
1105 3004 3110  
UP MOONMOBILES  
BT LUNAR MOBILE LABORATORIES  
LUNAR ROVING VEHICLES  
LUNOKHOD LUNAR ROVING VEHICLES  
MANNED LUNAR SURFACE VEHICLES  
RT #SURFACE VEHICLES  
RT CRAWLER TRACTORS  
LUNAR LOGISTICS  
WALKING MACHINES  
LUNAR TEMPERATURE  
1408 1410 3004 3009  
BT #TEMPERATURE  
RT HIGH TEMPERATURE ENVIRONMENTS  
LOW TEMPERATURE ENVIRONMENTS  
LUNAR TOPOGRAPHY  
MOON

# NASA THESAURUS (ALPHABETICAL LISTING)

**LUNAR TIDES**  
0710 1302 1307  
BT LUNAR EFFECTS  
TIDES  
BT ATMOSPHERIC TIDES  
**LUNAR TOPOGRAPHY**  
1105 3001 3004  
UP LUNAR SURFACE  
BT TOPOGRAPHY  
BT LUNAR ATMOSPHERES  
LUNAR BASES  
LUNAR COMPOSITION  
LUNAR CRATERS  
LUNAR CRUST  
LUNAR DUST  
LUNAR ENVIRONMENT  
LUNAR FAR SIDE  
LUNAR GEOLOGY  
LUNAR LANDING SITES  
LUNAR MARIA  
LUNAR RAYS  
LUNAR ROCKS  
LUNAR SOIL  
LUNAR TEMPERATURE  
MOON  
SELENOGRAPHY  
SELENOLOGY  
#SURFACE PROPERTIES  
SURFACE ROUGHNESS  
**LUNAR TRAJECTORIES**  
0709 1109 1901 3006  
BT CIRCUMLUNAR TRAJECTORIES  
EARTH-MOON TRAJECTORIES  
MOON-EARTH TRAJECTORIES  
BT SPACECRAFT TRAJECTORIES  
#TRAJECTORIES  
BT LUNAR FLIGHT  
PARKING ORBITS  
TRANSFER ORBITS  
**LUNATION**  
USE MONTH  
**LUNEBERG LENSES**  
USE RADAR CORNER REFLECTORS  
**LUNG MORPHOLOGY**  
0404 0408  
BT MORPHOLOGY  
BT PULMONARY LESIONS  
RESPIRATORY DISEASES  
**LUNGS**  
0404 0405 0408  
BT #ANATOMY  
ORGANS  
RESPIRATORY SYSTEM  
#VISCERA  
BT ALVEOLAR AIR  
ALVEOLI  
ATELECTASIS  
BRONCHI  
PLEURAE  
PNEUMOGRAPHY  
PNEUMOTHORAX  
PULMONARY CIRCULATION  
PULMONARY FUNCTIONS  
PULMONARY LESIONS  
SPIROMETERS  
**LUNIK 1 LUNAR PROBE**  
3108 3304  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 2 LUNAR PROBE**  
3108 3304  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 3 LUNAR PROBE**  
3108 3304  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 4 LUNAR PROBE**  
3004 3108 3409  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES

#UNMANNED SPACECRAFT  
**LUNIK 9 LUNAR PROBE**  
3108 3304  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 10 LUNAR PROBE**  
3108 3304  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 11 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 12 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 13 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK 14 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
LUNIK LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
**LUNIK LUNAR PROBES**  
3108 3304  
BT LUNIK 1 LUNAR PROBE  
LUNIK 2 LUNAR PROBE  
LUNIK 3 LUNAR PROBE  
LUNIK 4 LUNAR PROBE  
LUNIK 9 LUNAR PROBE  
LUNIK 10 LUNAR PROBE  
LUNIK 11 LUNAR PROBE  
LUNIK 12 LUNAR PROBE  
LUNIK 13 LUNAR PROBE  
LUNIK 14 LUNAR PROBE  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
BT LUNOKHOD LUNAR ROVING VEHICLES  
U.S.S.R. SPACE PROGRAM  
**LUNOKHOD LUNAR ROVING VEHICLES**  
1105 3004  
BT LUNAR ROVING VEHICLES  
LUNAR SURFACE VEHICLES  
BT LUNIK LUNAR PROBES  
U.S.S.R. SPACE PROGRAM  
VEHICLES  
**LUSTER**  
0605 2306 2310 3408  
UP DULLNESS  
**LUTETIUM**  
0603 1703 1704  
BT LUTETIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
RARE EARTH ELEMENTS  
**LUTETIUM COMPOUNDS**  
0603 1804  
BT #RARE EARTH COMPOUNDS  
BT METAL COMPOUNDS  
**LUTETIUM ISOTOPES**  
1703 2406  
UP LUTETIUM 176  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
LUTETIUM  
NUCLIDES  
RARE EARTH ELEMENTS

# LYSOZYME

**LUTETIUM 176**  
USE LUTETIUM ISOTOPES  
**LUXEMBOURG EFFECT**  
0702 1302 2402  
BT IONOSPHERIC CROSS MODULATION  
IONOSPHERIC PROPAGATION  
**LYAPUNOV FUNCTIONS**  
USE LYAPUNOV FUNCTIONS  
**LYMAN ALPHA RADIATION**  
1404 2402  
BT #ELECTROMAGNETIC RADIATION  
FAR ULTRAVIOLET RADIATION  
#IONIZING RADIATION  
ULTRAVIOLET RADIATION  
BT ATOMIC SPECTRA  
#EXTRATERRESTRIAL RADIATION  
LYMAN SPECTRA  
POLARIZED ELECTROMAGNETIC RADIATION  
**LYMAN BETA RADIATION**  
1404 2402  
BT #ELECTROMAGNETIC RADIATION  
FAR ULTRAVIOLET RADIATION  
#IONIZING RADIATION  
ULTRAVIOLET RADIATION  
BT ATOMIC SPECTRA  
#EXTRATERRESTRIAL RADIATION  
LYMAN SPECTRA  
POLARIZED ELECTROMAGNETIC RADIATION  
**LYMAN SPECTRA**  
2402  
BT ELECTROMAGNETIC SPECTRA  
H LINES  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
BT ATOMIC SPECTRA  
ELECTRONIC SPECTRA  
EMISSION SPECTRA  
LYMAN ALPHA RADIATION  
LYMAN BETA RADIATION  
SOLAR SPECTRA  
SPECTRAL THEORY  
ULTRAVIOLET SPECTRA  
**LYMPH**  
0403 0404 0405  
BT LYMPHOCYTES  
BT #BODY FLUIDS  
BT CORPUSCLES  
**LYMPHOCYTES**  
0403 0404 0406  
BT #ANATOMY  
BLOOD  
#BODY FLUIDS  
CARDIOVASCULAR SYSTEM  
#CELLS (BIOLOGY)  
LEUKOCYTES  
LYMPH  
BT CORPUSCLES  
**LYOPHILIZATION**  
USE COLLOIDING  
**LYOPHILS**  
USE COLLOIDS  
**LYRAE CONSTELLATION**  
2103 3001  
BT CONSTELLATIONS  
**LYSERGAMIDE**  
0403 1808  
BT AMIDES  
#NITROGEN COMPOUNDS  
BT #DRUGS  
**LYSERGINE**  
0403 1808  
BT ALKALOIDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
**LYSINE**  
0402 0403 0404  
BT #ACIDS  
AMINO ACIDS  
CARBOXYLIC ACIDS  
#ORGANIC COMPOUNDS  
BT DIGESTING  
LYSOGENESIS  
0404 0409 0412  
BT DISINTEGRATION  
LYSINE  
**LYSOZYME**  
0403 1808  
BT ENZYMES

# M

**M-218 AIRCRAFT**  
0204  
UF BEAGLE MILES M-218 AIRCRAFT  
BT BEAGLE AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
RT PASSENGER AIRCRAFT  
**M-1 ENGINE**  
2806 2808  
UF AJ-1000 ENGINE  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
HYDROGEN OXYGEN ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
BT JUNO 5 LAUNCH VEHICLE  
NOVA LAUNCH VEHICLES  
SATURN 1B LAUNCH VEHICLES  
SATURN 1 LAUNCH VEHICLES  
**M-46 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT FALCON MISSILE  
**M-55 ENGINE**  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT MINUTEMAN ICBM  
**M-56 ENGINE**  
2806 2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT MINUTEMAN ICBM  
**M-57 ENGINE**  
2806 2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT MINUTEMAN ICBM  
**M-100 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
**M-2F2 LIFTING BODY**  
0101 0102 0103 0104 0205  
BT #LIFTING BODIES  
M-2 LIFTING BODY  
RT LIFTING REENTRY VEHICLES  
**M-2 LIFTING BODY**  
0101 0103  
NT M-2F2 LIFTING BODY  
BT #LIFTING BODIES  
LIFTING REENTRY VEHICLES  
#MANEUVERABLE SPACECRAFT  
#REENTRY VEHICLES  
RT LIFTING REENTRY VEHICLES  
**M REGION**  
1307 2902 3001  
BT #REGIONS  
RT GEOMAGNETISM  
SOLAR ATMOSPHERE  
SOLAR CORPUSCULAR RADIATION  
SOLAR WIND  
**M WINGS**  
USE VARIABLE SWEEP WINGS  
**MA-2 ENGINE**  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
BT ATLAS ICBM  
VERNIER ENGINES  
**MA-3 ENGINE**  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
BT ATLAS ICBM  
VERNIER ENGINES  
**MA-5 ENGINE**  
2806 2808  
BT BOOSTER ROCKET ENGINES

#ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
BT ATLAS LAUNCH VEHICLES  
ATLAS SLV-3 LAUNCH VEHICLE  
VERNIER ENGINES  
**MA-3 FLIGHT**  
USE MERCURY MA-3 FLIGHT  
**MA-4 FLIGHT**  
USE MERCURY MA-4 FLIGHT  
**MA-5 FLIGHT**  
USE MERCURY MA-5 FLIGHT  
**MA-8 FLIGHT**  
USE MERCURY MA-8 FLIGHT  
**MA-9 FLIGHT**  
USE MERCURY MA-9 FLIGHT  
**MA-2 MISSION**  
USE MERCURY MA-2 FLIGHT  
**MACE MISSILES**  
2805 3101 3401  
BT SURFACE TO SURFACE MISSILES  
RT BOOSTER ROCKET ENGINES  
J-33 ENGINE  
SOLID PROPELLANT ROCKET ENGINES  
TURBOJET ENGINES  
**MACH CONES**  
0101 0201 1203  
BT #ELASTIC WAVES  
SHOCK WAVES  
RT ACOUSTIC VELOCITY  
BOW WAVES  
#CONES  
HIPERSONIC SHOCK  
MACH NUMBER  
SOUND WAVES  
SUPERSONIC FLIGHT  
SUPERSONIC FLOW  
SUPERSONICS  
**MACH INERTIA PRINCIPLE**  
2307 2311  
BT #INERTIA  
INERTIA PRINCIPLE  
RT #EQUATIONS OF MOTION  
MOMENTS OF INERTIA  
**MACH NUMBER**  
0101 0203 1110 1202 1203  
UF CRITICAL MACH NUMBER  
GLAUERT COEFFICIENT  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
RT ACOUSTIC VELOCITY  
AERODYNAMICS  
AIRSPEED  
MACH CONES  
SHOCK WAVES  
SUPERHARMONICS  
SWEEP ANGLE  
**MACH-ZEHNDER INTERFEROMETERS**  
1405 1406  
BT INTERFEROMETERS  
#MEASURING INSTRUMENTS  
RT AERODYNAMICS  
ARGON LASERS  
CARBON DIOXIDE LASERS  
DIFFRACTOMETERS  
GAS LASERS  
GONIOMETERS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
SCHLIEREN PHOTOGRAPHY  
**MACHINE-INDEPENDENT PROGRAMS**  
0802 0803  
BT #COMPUTER PROGRAMS  
#PROGRAMS  
RT COMPUTER PROGRAMMING  
COMPUTERS  
MULTIPROGRAMMING  
**MACHINE LEARNING**  
USE LEARNING MACHINES  
**MACHINE LIFE**  
USE SERVICE LIFE  
**MACHINE ORIENTED LANGUAGES**  
0503 0802 0803  
BT ALGOL  
ASSEMBLY LANGUAGE  
AUTOCODERS  
COBOL  
COGO (PROGRAMMING LANGUAGE)  
COMPASS (PROGRAMMING LANGUAGE)  
CONTEXT FREE LANGUAGES  
FORTRAN  
MAP (PROGRAMMING LANGUAGE)

PL/1  
BT #LANGUAGES  
RT COBOL  
COMPUTER PROGRAMMING  
ERROR DETECTION CODES  
**MACHINE RECOGNITION**  
USE ARTIFICIAL INTELLIGENCE  
**MACHINE STORAGE**  
USE #COMPUTER STORAGE DEVICES  
CORE STORAGE  
**MACHINE TOOLS**  
1504  
RT BORING MACHINES  
GRINDING MACHINES  
LATHES  
MILLING MACHINES  
SHAPERS  
TURRET LATHES  
BT #TOOLS  
RT #CUTTERS  
DIES  
DRILLS  
MACHINERY  
#MACHINING  
MANDRELS  
MECHANICAL DEVICES  
MECHANICAL ENGINEERING  
METAL CUTTING  
NUMERICAL CONTROL  
PRESSES  
PUNCHES  
SAWS  
SHEARS  
TAPS  
**MACHINE TRANSLATION**  
0802 0803  
BT #LINGUISTICS  
TRANSLATING  
RT #COMPUTER PROGRAMS  
INFORMATION THEORY  
LANGUAGE PROGRAMMING  
#LANGUAGES  
**MACHINERY**  
0801 1504 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COMPUTERS  
DRAFTING MACHINES  
#ENGINES  
LEARNING MACHINES  
LEVERS  
MACHINE TOOLS  
MECHANICAL ENGINEERING  
MECHANIZATION  
REFRIGERATING MACHINERY  
SELF FOCUSING  
TEACHING MACHINES  
#TOOLS  
#TURBOMACHINERY  
TURING MACHINES  
WALKING MACHINES  
WELDING MACHINES  
**#MACHINING**  
1504  
UF MATERIAL REMOVAL (MACHINING)  
NT CHEMICAL MACHINING  
ELECTROCHEMICAL MACHINING  
HOT MACHINING  
MILLING (MACHINING)  
SPARK MACHINING  
ULTRASONIC MACHINING  
RT CUT-OFF  
CUTTING  
DRILLING  
FINISHES  
#FORMING TECHNIQUES  
GRINDING (MATERIAL REMOVAL)  
GROOVING  
KNURLING  
MACHINE TOOLS  
METAL CUTTING  
#METAL WORKING  
PLANING  
RESIDUAL STRESS  
SETUPS  
SURFACE FINISHING  
SURFACE ROUGHNESS  
TOOLING  
V GROOVES  
**MACLAURIN SERIES**  
1902

# MACROCLIMATE

UP MCLAURIN SERIES  
 BT #ANALYSIS (MATHEMATICS)  
   CALCULUS  
   POWER SERIES  
   REAL VARIABLES  
   SERIES (MATHEMATICS)  
   TAYLOR SERIES  
 MACROCLIMATE  
   USE CLIMATE  
 MACROMOLECULES  
   USE #MOLECULES  
 MACROPHAGES  
   0404 0407  
   BT #CELLS (BIOLOGY)  
 MACROSCOPIC EQUATIONS  
   0602 0603 1902  
   BT EQUATIONS  
   MEASUREMENT  
   PROPERTIES  
   STATISTICAL MECHANICS  
 MACULAR VISION  
   USE VISION  
 MAGAZINES (SUPPLY CHAMBERS)  
   1504 3401 3405  
   BT AMMUNITION  
   PHOTOGRAPHIC FILM  
   SPOOLS  
 MAGIC TEES  
   0701 0705 0710  
   RT DUPLEXERS  
 MAGMA  
   1306 1308  
   BT IGNEOUS ROCKS  
   ROCKS  
   RT LAVA  
 MAGNESIUM  
   1703  
   BT MAGNESIUM ISOTOPES  
   #CHEMICAL ELEMENTS  
   #METALS  
 MAGNESIUM ALLOYS  
   0603 1701 1703  
   BT #ALLOYS  
   LIGHT ALLOYS  
 MAGNESIUM BROMIDES  
   0603 1804  
   BT BROMIDES  
   BROMINE COMPOUNDS  
   HALIDES  
   #HALOGEN COMPOUNDS  
   #MAGNESIUM COMPOUNDS  
   METAL HALIDES  
 MAGNESIUM CELLS  
   0302 0603  
   BT DIRECT POWER GENERATORS  
   DRY CELLS  
   ELECTRIC BATTERIES  
   #ELECTRIC GENERATORS  
   #ELECTROCHEMICAL CELLS  
   PRIMARY BATTERIES  
   BT CHEMICAL AUXILIARY POWER UNITS  
   ELECTROLYTIC POLARIZATION  
 MAGNESIUM CHLORIDES  
   1804  
   BT CHLORIDES  
   CHLORINE COMPOUNDS  
   HALIDES  
   #HALOGEN COMPOUNDS  
   #MAGNESIUM COMPOUNDS  
 #MAGNESIUM COMPOUNDS  
   0603 1804  
   NT BRUCITE  
   CHLOROPHYLLS  
   CORDIERITE  
   DOLOMITE (MINERAL)  
   ENSTATITE  
   FORSTERITE  
   HEXAHEDRITE  
   MAGNESIUM BROMIDES  
   MAGNESIUM CHLORIDES  
   MAGNESIUM FLUORIDES  
   MAGNESIUM GERMANATES  
   MAGNESIUM GERMANIDES  
   MAGNESIUM OXIDES  
   MAGNESIUM PERCHLORATES  
   MAGNESIUM SULFATES  
   MAGNESIUM TITANATES  
   MERWINITE  
   MONTICELLITE  
   NORBERGITE  
   PERICLASE  
   TALC

RT ALKALINE EARTH COMPOUNDS  
   METAL COMPOUNDS  
 MAGNESIUM FLUORIDES  
   0603 1804  
   BT FLUORIDES  
   #FLUORINE COMPOUNDS  
   HALIDES  
   #HALOGEN COMPOUNDS  
   #MAGNESIUM COMPOUNDS  
   METAL HALIDES  
 MAGNESIUM GERMANATES  
   0603 1804  
   BT GERMANATES  
   #GERMANIUM COMPOUNDS  
   #MAGNESIUM COMPOUNDS  
 MAGNESIUM GERMANIDES  
   0603 1804  
   BT GERMANIDES  
   #GERMANIUM COMPOUNDS  
   #MAGNESIUM COMPOUNDS  
 MAGNESIUM ISOTOPES  
   0603 1703 1704 2406  
   BT #CHEMICAL ELEMENTS  
   ISOTOPES  
   MAGNESIUM  
 MAGNESIUM OXIDES  
   1804  
   NT PERICLASE  
   BT ALKALINE EARTH OXIDES  
   #CHALCOGENIDES  
   #MAGNESIUM COMPOUNDS  
   METAL OXIDES  
   OXIDES  
 MAGNESIUM PERCHLORATES  
   1804  
   BT CHLORINE COMPOUNDS  
   #HALOGEN COMPOUNDS  
   #MAGNESIUM COMPOUNDS  
   PERCHLORATES  
 MAGNESIUM SULFATES  
   1804  
   NT HEXAHEDRITE  
   BT #MAGNESIUM COMPOUNDS  
   SULFATES  
   #SULFUR COMPOUNDS  
 MAGNESIUM TITANATES  
   0603 1804  
   BT #MAGNESIUM COMPOUNDS  
   TITANATES  
   #TITANIUM COMPOUNDS  
 MAGNESYN (TRADEMARK)  
   USE SERVOMOTORS  
 MAGNET COILS  
   0904 2305 2307 2402  
   NT FIELD COILS  
   RT COILS  
   ELECTROMAGNETISM  
   ELECTROMAGNETS  
   INDUCTORS  
   MAGNETIC CIRCUITS  
   MAGNETIC CORES  
   #MAGNETS  
   SATURABLE REACTORS  
   SOLENOIDS  
   SUPERCONDUCTING MAGNETS  
   TOROIDS  
   TRANSFORMERS  
   WIRE WINDING  
   YOKES  
 MAGNETIC ABSORPTION  
   USE ELECTROMAGNETIC ABSORPTION  
 MAGNETIC AMPLIFIERS  
   0904 2307  
   BT #AMPLIFIERS  
   RT MAGNETOSTATIC AMPLIFIERS  
   NONLINEARITY  
   POWER AMPLIFIERS  
   SATURABLE REACTORS  
   VOLTAGE AMPLIFIERS  
 MAGNETIC ANNULAR ARC  
   2307 2501  
   BT ARCS  
   CURRENT DISTRIBUTION  
   PLASMA ACCELERATORS  
   PLASMA CONTROL  
   PLASMA PROPULSION  
 MAGNETIC ANNULAR SHOCK TUBES  
   2307 2311  
   UP MAST SHOCK TUBES  
   BT SHOCK TUBES  
   #SHOCK WAVE GENERATORS

# NASA TREASURY (ALPHABETICAL LISTING)

MAGNETIC ANOMALIES  
   2307 2311 2402  
   UP GEOMAGNETIC ANOMALIES  
   NT GEOMAGNETIC HOLLOW  
   BT #ABNORMALITIES  
   RT GEOMAGNETISM  
   MAGNETIC DISTURBANCES  
   MAGNETIC SURVEYS  
   MAGNETIC VARIATIONS  
   NONUNIFORM MAGNETIC FIELDS  
 MAGNETIC CHARGE DENSITY  
   2307  
   UP SCALAR MAGNETIC CHARGE  
   RT CHARGING  
   CONSTITUTIVE EQUATIONS  
   MAGNETIC FLUX  
   MAGNETIC INDUCTION  
   MAXWELL EQUATION  
 MAGNETIC CIRCUITS  
   0902 2307 2402  
   BT #CIRCUITS  
   RT FLUX (RATE)  
   LINES OF FORCE  
   MAGNET COILS  
   #MAGNETIC FIELDS  
   NETWORKS  
   SATURABLE REACTORS  
   TRANSFORMERS  
 MAGNETIC COILS  
   0904 2305 2307  
   NT FIELD COILS  
   BT #ELECTRIC COILS  
   RT COILS  
   ELECTROMAGNETIC HAMMERS  
   ELECTROMAGNETISM  
   FLUX PUMPS  
 MAGNETIC COMPASSES  
   2104 2307  
   BT #AIRCRAFT INSTRUMENTS  
   COMPASSES  
   #NAVIGATION AIDS  
   NAVIGATION INSTRUMENTS  
   , RT GYROCOMPASSES  
 MAGNETIC CONTROL  
   0904 2307  
   RT #ATTITUDE CONTROL  
   CONTROL  
 MAGNETIC CORES  
   0904 2305 2307  
   BT #COMPUTER STORAGE DEVICES  
   CORES  
   RT #ELECTRIC COILS  
   FERRITES  
   FERROMAGNETISM  
   LAMINATES  
   MAGNET COILS  
   #MAGNETIC MATERIALS  
   #MAGNETS  
   PARAMETRON  
   SATURABLE REACTORS  
   TOROIDS  
   TRANSFORMERS  
 MAGNETIC DIFFUSION  
   2307 2311  
   (DIFFUSION VIA A MAGNETIC FIELD)  
   BT #DIFFUSION  
   RT #MAGNETIC FIELDS  
 MAGNETIC DIPOLES  
   2307 2311 2402  
   RT DIPOLES  
   ELECTRIC DIPOLES  
   MAGNETIC DOMAINS  
   #MAGNETIC FIELDS  
   MAGNETIC MOMENTS  
   #MAGNETIC PROPERTIES  
   PHYSICAL PROPERTIES  
   POLES  
 MAGNETIC DISKS  
   0801 2305 2307  
   BT #COMPUTER STORAGE DEVICES  
   MAGNETIC STORAGE  
   RT CORE STORAGE  
   DISKS  
 MAGNETIC DISPERSION  
   0710 2307 2402  
   RT DISPERSION  
   ELECTROMAGNETIC SCATTERING  
   FERROMAGNETISM  
   MAGNETIZATION  
   WAVE SCATTERING  
 MAGNETIC DISTURBANCES  
   2307 2402

# NASA THESAURUS (ALPHABETICAL LISTING)

**NT** MAGNETIC STORMS  
**BT** AURORAS  
 DISTURBANCES  
 GEOMAGNETISM  
 MAGNETIC ANOMALIES  
 NONADIABATIC THEORY  
 SOLAR ACTIVITY  
 SOLAR ACTIVITY EFFECTS  
 SOLAR FLARES  
 SUDDEN IONOSPHERIC DISTURBANCES  
 SUNSPOTS  
**MAGNETIC DOMAINS**  
 2307 2405  
**BT** DOMAINS  
**RT** DIPOLE MOMENTS  
 DOMAIN WALL  
 LINES OF FORCE  
 MAGNETIC DIPOLES  
 #MAGNETIC FIELDS  
 MAGNETIC MOMENTS  
 MAGNETIC SWITCHING  
**MAGNETIC DRUMS**  
 0801 2305 2307  
**BT** #COMPUTER STORAGE DEVICES  
 MAGNETIC STORAGE  
**RT** CORE STORAGE  
 DRUMS  
**MAGNETIC EFFECTS**  
 2307 2311  
**UF** GEOMAGNETIC EFFECTS  
**NT** MAGNETIC RIGIDITY  
**BT** #MAGNETIC PROPERTIES  
**RT** EFFECTS  
 GEOMAGNETISM  
 MAGNETIC RELAXATION  
 MAGNETIC SUSPENSION  
 MAGNETOACTIVITY  
 TEMPERATURE EFFECTS  
**MAGNETIC EQUATOR**  
 1307 2103 2307  
**UF** GEOMAGNETIC EQUATOR  
**BT** EQUATORS  
**RT** GEOMAGNETISM  
 INCLINATION  
 MAGNETIC POLES  
 MAGNETIC SURVEYS  
**MAGNETIC FIELD COILS**  
 USE FIELD COILS  
**MAGNETIC FIELD INTENSITY**  
 USE MAGNETIC FLUX  
**#MAGNETIC FIELDS**  
 1307 2304 2305 2307 2501  
**NT** FORCE-FREE MAGNETIC FIELDS  
 GEOMAGNETISM  
 INTERPLANETARY MAGNETIC FIELDS  
 INTERSTELLAR MAGNETIC FIELDS  
 LUNAR MAGNETIC FIELDS  
 MAGNETOSTATIC FIELDS  
 NONUNIFORM MAGNETIC FIELDS  
 PALEOMAGNETISM  
 PLANETARY MAGNETIC FIELDS  
 SOLAR MAGNETIC FIELD  
 STELLAR MAGNETIC FIELDS  
 TRAPPED MAGNETIC FIELDS  
**RT** BERNSTEIN ENERGY PRINCIPLE  
 CONJUGATE POINTS  
 CONSTITUTIVE EQUATIONS  
 CROSSED FIELDS  
 DEMAGNETIZATION  
 ELECTRIC FIELDS  
 ELECTROMAGNETIC FIELDS  
 ELECTROMAGNETISM  
 ELECTROMECHANICS  
 FERROMAGNETIC RESONANCE  
 FIELD EMISSION  
 FIELD STRENGTH  
 FIELD THEORY (PHYSICS)  
 FIELDS  
 FLUX PUMPS  
 GEOMAGNETIC TAIL  
 KERR EFFECTS  
 LINES OF FORCE  
 LORENTZ FORCE  
 MAGNETIC CIRCUITS  
 MAGNETIC DIFFUSION  
 MAGNETIC DIPOLES  
 MAGNETIC DOMAINS  
 MAGNETIC FLUX  
 MAGNETIC LENSES  
 MAGNETIC MEASUREMENT  
 MAGNETIC RESONANCE  
 MAGNETIC SHIELDING

MAGNETIC SURVEYS  
 MAGNETIZATION  
 MAGNETO-OPTICS  
 MAGNETOACTIVITY  
 MAGNETORESISTIVITY  
 MAGNETOSPHERE  
 MAGNETOSTATICS  
**#MAGNETS**  
 MULTIPOLAR FIELDS  
 PARTICLE ACCELERATION  
 #PINCH EFFECT  
 POLARITY  
 RACETRACKS (PARTICLE ACCELERATORS)  
 RADIATION BELTS  
 SCYLLA  
 SELF CONSISTENT FIELDS  
 SUHL EFFECT  
 ZEEHAN EFFECT  
**MAGNETIC FILMS**  
 1802 2305 2307  
**BT** #COATINGS  
**RT** FILMS  
**MAGNETIC FLUX**  
 2307  
**UF** MAGNETIC FIELD INTENSITY  
**BT** FIELD STRENGTH  
 FLUX (RATE)  
**RT** #RATES (PER TIME)  
 CONSTITUTIVE EQUATIONS  
 CURRENT SHEETS  
 LINES OF FORCE  
 MAGNETIC CHARGE DENSITY  
 #MAGNETIC FIELDS  
**MAGNETIC FORMING**  
 0802 2307 2402  
**BT** #FORMING TECHNIQUES  
 #METAL WORKING  
**RT** BULGING  
 COLD WORKING  
 DEEP DRAWING  
 ELECTROMAGNETIC HAMMERS  
 METAL DRAWING  
**MAGNETIC INDUCTION**  
 2307 2311 2402  
**UF** ELECTROMAGNETIC DEDUCTION  
**BT** #MAGNETIC PROPERTIES  
**RT** COUPLING COEFFICIENTS  
 FLUX (RATE)  
 INDUCTANCE  
 INDUCTION  
 INDUCTION HEATING  
 MAGNETIC CHARGE DENSITY  
 MAGNETIC PERMEABILITY  
**MAGNETIC INDUCTION PROBES**  
 USE MAGNETIC PROBES  
**MAGNETIC LENSES**  
 2307  
**UF** QUADRUPOLE LENSES  
**BT** LENSES  
**RT** CATHODE RAY TUBES  
 ELECTRON BEAMS  
 ELECTRON GUNS  
 ELECTRON MICROSCOPES  
 #MAGNETIC FIELDS  
 PLASMA GUNS  
 PLASMA JETS  
 WIRE GRID LENSES  
**#MAGNETIC MATERIALS**  
 2305 2307 2401  
**UF** MAGNETIC METALS  
**NT** FERRIMAGNETIC MATERIALS  
 FERROMAGNETIC FILMS  
 FERROMAGNETIC MATERIALS  
 MAGNETITE  
 PERMALLOYS (TRADEMARK)  
**RT** MAGNETIC CORES  
 MAGNETIC TAPES  
 #MAGNETS  
**MAGNETIC MEASUREMENT**  
 1308 1406 2307  
 (MEASUREMENT OF MAGNETIC PROPERTIES,  
 QUANTITIES OR CONDITIONS)  
**UF** FLUXMETERS  
 MAGNETOMETRY  
**BT** ELECTROMAGNETIC MEASUREMENT  
 #MAGNETIC FIELDS  
 MAGNETIC MOMENTS  
 #MAGNETIC PROPERTIES  
 MAGNETIC SIGNALS  
 MAGNETIC SURVEYS  
 MAGNETOMETERS  
 MATERIALS TESTS

# #MAGNETIC PROPERTIES

MEASUREMENT  
**MAGNETIC MEMORIES**  
 USE MAGNETIC STORAGE  
**MAGNETIC METALS**  
 USE #MAGNETIC MATERIALS  
 #METALS  
**MAGNETIC MIRRORS**  
 2307 2502  
**BT** MIRRORS  
**RT** LINES OF FORCE  
 MIRROR POINT  
 NONUNIFORM MAGNETIC FIELDS  
 NUCLEAR FUSION  
 PLASMA CONTROL  
 Q DEVICES  
 SCYLLA  
**MAGNETIC MOMENTS**  
 2307 2311 3408  
**BT** DIPOLE MOMENTS  
 #MAGNETIC PROPERTIES  
 #MOMENTS  
**RT** BOHR MAGNETON  
 ELECTRIC MOMENTS  
 LANGEVIN FORMULA  
 MAGNETIC DIPOLES  
 MAGNETIC DOMAINS  
 MAGNETIC MEASUREMENT  
**MAGNETIC PERMEABILITY**  
 2307  
**UF** MAGNETIC SUSCEPTIBILITY  
 SUSCEPTIBILITY (MAGNETISM)  
**BT** #MAGNETIC PROPERTIES  
**RT** CURIE-WEISS LAW  
 DIELECTRIC PERMEABILITY  
 HYSTERESIS  
 MAGNETIC INDUCTION  
 NEEL TEMPERATURE  
 RELUCTANCE  
**MAGNETIC PISTONS**  
 0904 2307  
**BT** PISTONS  
**RT** HYPERVELOCITY WIND TUNNELS  
 SHOCK TUBES  
 #SHOCK WAVE GENERATORS  
**MAGNETIC POLES**  
 2307  
**RT** AURORAL ZONES  
 DIPOLES  
 GEOMAGNETISM  
 MAGNETIC EQUATOR  
 POLARITY  
 POLES  
**MAGNETIC PROBES**  
 0710 1302 2307 3108  
**UF** MAGNETIC INDUCTION PROBES  
**BT** #MEASURING INSTRUMENTS  
**RT** MAGNETOMETERS  
 RESONANCE PROBES  
 SPACE PROBES  
**#MAGNETIC PROPERTIES**  
 2307 2311 3408  
**NT** ANTIFERROMAGNETISM  
 CURIE TEMPERATURE  
 DIAMAGNETISM  
 FERRIMAGNETISM  
 FERROMAGNETISM  
 GEOMAGNETISM  
 GYROFREQUENCY  
 GYROMAGNETISM  
 MAGNETIC EFFECTS  
 MAGNETIC INDUCTION  
 MAGNETIC MOMENTS  
 MAGNETIC PERMEABILITY  
 MAGNETIC RELAXATION  
 MAGNETIC RIGIDITY  
 MAGNETIC SUSPENSION  
 MAGNETOACOUSTICS  
 MAGNETOACTIVITY  
 MAGNETORESISTIVITY  
 MAGNETOSTRICTION  
 PALEOMAGNETISM  
 PARAMAGNETISM  
 POLARIZATION CHARACTERISTICS  
 RELUCTANCE  
 REMANENCE  
 SPIN-LATTICE RELAXATION  
 THERMOMAGNETIC EFFECTS  
**RT** COERCIVITY  
 DIPOLE MOMENTS  
 EDDY CURRENTS  
 #ELECTRICAL PROPERTIES  
 ELECTROMAGNETISM

# MAGNETIC PUMPING

FIELD STRENGTH  
HYSTERESIS  
INDUCTANCE  
LINES OF FORCE  
MAGNETIC DIPOLES  
MAGNETIC MEASUREMENT  
MAGNETIC SIGNALS  
MAGNETIZATION  
#MAGNETS  
MAXWELL EQUATION  
PHYSICAL PROPERTIES  
POLARIZATION (SPIN ALIGNMENT)  
PROPERTIES  
SOLID STATE PHYSICS  
MAGNETIC PUMPING  
0710 2307 2402  
RT INDUCTION HEATING  
ION CYCLOTRON RADIATION  
KINETIC HEATING  
PLASMA HEATING  
PUMPING  
MAGNETIC RECORDING  
0905 2305 2307  
UP MAGNETIC TAPE RECORDERS  
BT RECORDING  
RT DATA RECORDING  
MAGNETIC STORAGE  
MAGNETIC RELAXATION  
2305 2307 2311  
NT SPIN-LATTICE RELAXATION  
BT #MAGNETIC PROPERTIES  
RT MAGNETIC EFFECTS  
MAGNETIC RESONANCE  
RELAXATION (MECHANICS)  
MAGNETIC RESONANCE  
1411 2305 2307 2405  
NT ELECTRON PARAMAGNETIC RESONANCE  
FERROMAGNETIC RESONANCE  
NUCLEAR MAGNETIC RESONANCE  
PARAMAGNETIC RESONANCE  
PROTON MAGNETIC RESONANCE  
PROTON RESONANCE  
BT #RESONANCE  
RT #MAGNETIC FIELDS  
MAGNETIC RELAXATION  
NUCLEAR SPIN  
SPECTRUM ANALYSIS  
MAGNETIC RIGIDITY  
2307 2311  
UP GYROINTERACTION  
BT MAGNETIC EFFECTS  
#MAGNETIC PROPERTIES  
RT ELECTRON TRAJECTORIES  
IONOSPHERIC DRIFT  
PARTICLE MASS  
PARTICLE MOTION  
RIGIDITY  
MAGNETIC SHIELDING  
0904 2307 2311  
BT #SHIELDING  
RT ELECTROMAGNETIC SHIELDING  
#MAGNETIC FIELDS  
MAGNETOMETERS  
RADIATION SHIELDING  
MAGNETIC SIGNALS  
2303 2307 2402  
RT MAGNETIC MEASUREMENT  
#MAGNETIC PROPERTIES  
NUCLEAR MAGNETIC RESONANCE  
SIGNAL MIXING  
SIGNALS  
MAGNETIC SIGNATURES  
2307  
UP MAGNETOGRAMS  
BT #SIGNATURES  
MAGNETIC SPECTROSCOPY  
1411 2307  
BT #SPECTROSCOPY  
RT GAS SPECTROSCOPY  
MASS SPECTROSCOPY  
SPECTROSCOPIC ANALYSIS  
VACUUM SPECTROSCOPY  
MAGNETIC STARS  
3001 3009  
BT #CELESTIAL BODIES  
STARS  
MAGNETIC STORAGE  
0802 2307  
UP MAGNETIC MEMORIES  
NT CORE STORAGE  
MAGNETIC DISKS  
MAGNETIC DRUMS

BT #COMPUTER STORAGE DEVICES  
DATA RECORDING  
DATA STORAGE  
DRUMS  
MAGNETIC RECORDING  
MAGNETIC TAPES  
PARAMETIONS  
STORAGE  
MAGNETIC STORMS  
0710 1302 2307  
UP GEOMAGNETIC STORMS  
BT MAGNETIC DISTURBANCES  
#STORMS  
RT DAWN CHORUS  
FORBUSH DECREASES  
MAGNETIC VARIATIONS  
NOISE STORMS  
SOLAR STORMS  
SPREAD F  
SUDDEN IONOSPHERIC DISTURBANCES  
MAGNETIC SURVEYS  
1401 2307  
UP MAGNETOTELLURIC PROFILING  
RT GEOMAGNETISM  
MAGNETIC ANOMALIES  
MAGNETIC EQUATOR  
#MAGNETIC FIELDS  
MAGNETIC MEASUREMENT  
MAGNETIC SUSCEPTIBILITY  
USE MAGNETIC PERMEABILITY  
MAGNETIC SUSPENSION  
2307 2311  
BT #MAGNETIC PROPERTIES  
SUSPENDING (HANGING)  
RT MAGNETIC EFFECTS  
MAGNETIC SWITCHING  
0902 0904 2301  
BT SWITCHING  
RT ANTIFERROMAGNETISM  
BEAM SWITCHING  
MAGNETIC DOMAINS  
SATURABLE REACTORS  
MAGNETIC TAPE RECORDERS  
USE MAGNETIC RECORDING  
TAPE RECORDERS  
MAGNETIC TAPES  
0802  
UP TAPE MERGING  
BT #COMPUTER STORAGE DEVICES  
RT #MAGNETIC MATERIALS  
MAGNETIC STORAGE  
MAGNETIC TAPE RECORDERS  
PLASTIC TAPES  
PLAYBACKS  
PUNCHED TAPES  
READERS  
TAPE RECORDERS  
TAPES  
MAGNETIC TRANSDUCERS  
1413 2307  
BT #TRANSDUCERS  
MAGNETIC TRAPS  
USE PLASMA CONTROL  
MAGNETIC VARIATIONS  
1307 2307 2402  
NT GEOMAGNETIC MICROPULSATIONS  
GEOMAGNETIC PULSATIONS  
NOCTURNAL VARIATIONS  
BT #VARIATIONS  
RT ANNUAL VARIATIONS  
DIURNAL VARIATIONS  
#IONOSPHERIC DISTURBANCES  
MAGNETIC ANOMALIES  
MAGNETIC STORMS  
SCYLLA  
TRAVELING IONOSPHERIC DISTURBANCES  
MAGNETICALLY TRAPPED PARTICLES  
2307 2403 2502  
RT ARTIFICIAL RADIATION BELTS  
INNER RADIATION BELT  
OUTER RADIATION BELT  
PROTON BELTS  
RADIATION BELTS  
CHARGED PARTICLES  
#PARTICLES  
TRAPPED PARTICLES  
RT PLASMA CONTROL  
TRAPPED MAGNETIC FIELDS  
MAGNETITE  
1703 1804 1806 2305 2307  
BT #CHALCOGENIDES  
FERROMAGNETIC MATERIALS

# NASA THESAURUS (ALPHABETICAL LISTING)

#IRON COMPOUNDS  
IRON OXIDES  
#MAGNETIC MATERIALS  
METAL OXIDES  
#MINERALS  
OXIDES  
MAGNETIZATION  
2307  
UP REMAGNETIZATION  
RT COERCIVITY  
MAGNETIC DISPERSION  
#MAGNETIC FIELDS  
#MAGNETIC PROPERTIES  
#MAGNETS  
MAGNONS  
POLARIZATION  
POLARIZATION (CHARGE SEPARATION)  
POLARIZATION (SPIN ALIGNMENT)  
MAGNETO-OPTICS  
2306 2307 2310  
RT ELECTRO-OPTICS  
#ELECTROMAGNETIC RADIATION  
FARADAY EFFECT  
KERR MAGNETOOPTICAL EFFECT  
#MAGNETIC FIELDS  
POLARIZATION (WAVES)  
POLARIZED ELECTROMAGNETIC RADIATION  
MAGNETOACOUSTIC WAVES  
2301 2307 2308  
BT #ELASTIC WAVES  
MAGNETOELASTIC WAVES  
RT MAGNETOHYDRODYNAMIC WAVES  
PLASMA WAVES  
MAGNETOACOUSTICS  
2301 2307 2308  
BT ACOUSTICS  
#MAGNETIC PROPERTIES  
MAGNETOACTIVITY  
2307 2311  
NT MAGNETORESISTIVITY  
BT #MAGNETIC PROPERTIES  
RT MAGNETIC EFFECTS  
#MAGNETIC FIELDS  
MAGNETOCARDIOGRAPHY  
0501 2307  
BT BIOMETRICS  
CARDIOGRAPHY  
RT #BIOENGINEERING  
BIOINSTRUMENTATION  
MAGNETOELASTIC VIBRATIONS  
USE MAGNETOELASTIC WAVES  
MAGNETOELASTIC WAVES  
2301 2307 3203  
UP MAGNETOELASTIC VIBRATIONS  
RT MAGNETOACOUSTIC WAVES  
BT #ELASTIC WAVES  
RT ELECTROSTATIC WAVES  
MAGNETOSONIC RESONANCE  
MAGNETOSPHERIC INSTABILITY  
MAGNETOSTRICTION  
PLASMA WAVES  
SOUND WAVES  
ULTRASONIC RADIATION  
MAGNETOELASTICITY  
USE MAGNETOSTRICTION  
MAGNETOELECTRIC MEDIA  
1704 2304 2305 2307 2402  
RT DIELECTRICS  
MAGNETOIONICS  
MAXWELL EQUATION  
#MECHANICAL DRIVES  
MAGNETOGASDYNAMICS  
USE MAGNETOHYDRODYNAMICS  
MAGNETOGRAMS  
USE MAGNETIC SIGNATURES  
MAGNETOGRAMS  
USE MAGNETOMETERS  
#RECORDING INSTRUMENTS  
MAGNETOHYDRODYNAMIC ACCELERATION  
USE PLASMA ACCELERATION  
MAGNETOHYDRODYNAMIC FLOW  
1204 2307 2502  
UP HYDROMAGNETIC FLOW  
PLASMA FLOW  
BT #FLUID FLOW  
RT COMPRESSIBLE FLOW  
CORE FLOW  
GAS FLOW  
GEOMAGNETIC HOLLOW  
HARTMANN FLOW  
LINE CURRENT  
MAGNETOHYDRODYNAMIC STABILITY

# NASA THESAURUS (ALPHABETICAL LISTING)

MAGNETOHYDRODYNAMIC TURBULENCE  
MAGNETOHYDRODYNAMIC WAVES  
MAGNETOHYDRODYNAMICS  
PLASMA FLUX MEASUREMENTS  
PLASMA TURBULENCE  
TRANSVERSE WAVES  
TWO FLUID MODELS  
**MAGNETOHYDRODYNAMIC GENERATORS**  
2307 2501 2502  
BT DIRECT POWER GENERATORS  
#ELECTRIC GENERATORS  
RT FUEL CELLS  
MAGNETOHYDRODYNAMICS  
PLASMA ACCELERATORS  
#PLASMA GENERATORS  
THERMIONIC CONVERTERS  
THERMOELECTRIC GENERATORS  
**MAGNETOHYDRODYNAMIC SHEAR HEATING**  
0710 1204 2301 2307 2308 2501 2502 3303  
BT #ELASTIC WAVES  
#HEATING  
SOUND WAVES  
RT PLASMA HEATING  
PLASMA SHEATHS  
SHOCK HEATING  
VISCOUS FLOW  
**MAGNETOHYDRODYNAMIC STABILITY**  
1204 2307 2502 3408  
OF HYDROMAGNETIC STABILITY  
PLASMA INSTABILITY  
PLASMA STABILITY  
BT #DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
#ELASTIC WAVES  
FLOW CHARACTERISTICS  
FLOW STABILITY  
MOTION STABILITY  
#STABILITY  
RT HELICAL FLOW  
MAGNETOHYDRODYNAMIC FLOW  
MAGNETOHYDRODYNAMIC TURBULENCE  
MAGNETOHYDRODYNAMICS  
MAGNETOHYDROSTATICS  
NONEQUILIBRIUM PLASMAS  
NONUNIFORM PLASMAS  
PLASMA CONDUCTIVITY  
PLASMA DECAY  
PLASMA LIFETIME  
PLASMA LOSS  
PLASMA PINCH  
PLASMA POTENTIALS  
PLASMA SLABS  
PLASMA TEMPERATURE  
PLASMA TURBULENCE  
PLASMONS  
THERMAL INSTABILITY  
**MAGNETOHYDRODYNAMIC TURBULENCE**  
1204 2307 2502  
NT PLASMA TURBULENCE  
BT #TURBULENCE  
RT HOMOGENEOUS TURBULENCE  
ISOTROPIC TURBULENCE  
MAGNETOHYDRODYNAMIC FLOW  
MAGNETOHYDRODYNAMIC STABILITY  
**MAGNETOHYDRODYNAMIC WAVES**  
1204 2307 2402 2502  
OF ALFVEN WAVES  
HYDROMAGNETIC WAVES  
PLASMA SOUND WAVES  
NT ELECTROSTATIC WAVES  
PLASMA WAVES  
BT #ELASTIC WAVES  
RT MAGNETOACOUSTIC WAVES  
MAGNETOHYDRODYNAMIC FLOW  
MAGNETOHYDRODYNAMICS  
NORMAL SHOCK WAVES  
OBLIQUE SHOCK WAVES  
SHOCK WAVES  
**MAGNETOHYDRODYNAMICS**  
1202 2304 2305 2307 2502  
OF GEOMETRICAL HYDROMAGNETICS  
HYDROMAGNETICS  
HYDROMAGNETISM  
MAGNETOGASDYNAMICS  
BT FLUID DYNAMICS  
#FLUID MECHANICS  
HYDRODYNAMICS  
HYDROMECHANICS  
RT ALPHA PLASMA DEVICES  
CONDUCTING FLUIDS  
ELECTRIC ARCS  
ELECTROHYDRODYNAMICS

GAS DYNAMICS  
GAS TRANSPORT  
HALL ACCELERATORS  
HALL EFFECT  
HARTMANN FLOW  
HARTMANN NUMBER  
#IONIZATION  
MAGNETOHYDRODYNAMIC FLOW  
MAGNETOHYDRODYNAMIC GENERATORS  
MAGNETOHYDRODYNAMIC STABILITY  
MAGNETOHYDRODYNAMIC WAVES  
MAGNETOHYDROSTATICS  
MAGNETOIONICS  
MAGNETOSONIC RESONANCE  
#PINCH EFFECT  
PLASMA DYNAMICS  
PLASMA PHYSICS  
PLASMA PROPULSION  
#PLASMAS (PHYSICS)  
SPACE CHANGE  
SPACE MECHANICS  
STELLARATORS  
THERMONUCLEAR REACTIONS  
**MAGNETOHYDROSTATICS**  
1204 2307 2502  
BT #FLUID MECHANICS  
HYDROMECHANICS  
HYDROSTATICS  
#STATICS  
RT MAGNETOHYDRODYNAMIC STABILITY  
MAGNETOHYDRODYNAMICS  
MAGNETOIONICS  
PLASMA PHYSICS  
STATIC STABILITY  
**MAGNETOIONIC PLASMA**  
USE #PLASMAS (PHYSICS)  
**MAGNETOIONICS**  
2304 2307 2502  
RT ELECTROMAGNETIC WAVE TRANSMISSION  
ELLIPTICAL POLARIZATION  
GEOMAGNETISM  
GYROFREQUENCY  
IONOSPHERIC PROPAGATION  
MAGNETOELECTRIC MEDIA  
MAGNETOHYDRODYNAMICS  
MAGNETOHYDROSTATICS  
#PLASMAS (PHYSICS)  
RADIO TRANSMISSION  
**MAGNETOMETERS**  
1406 2307  
OF GAUSSMETERS  
GRADIOMETERS  
MAGNETOGRAPHS  
NT VARIOMETERS  
BT #MEASURING INSTRUMENTS  
RT ELECTRICAL MEASUREMENT  
FIELD INTENSITY METERS  
GEOMAGNETISM  
MAGNETIC MEASUREMENT  
MAGNETIC PROBES  
MAGNETIC SHIELDING  
NUCLEAR MAGNETIC RESONANCE  
PROTON MASERS  
**MAGNETOMETRY**  
USE MAGNETIC MEASUREMENT  
**MAGNETOPOUSE**  
1203 1302 1307 2307  
BT #EARTH ATMOSPHERE  
MAGNETOSPHERE  
RT MAGNETOSPHERIC INSTABILITY  
SOLAR WIND  
**MAGNETOPLASMAS**  
USE #PLASMAS (PHYSICS)  
**MAGNETORESISTANCE**  
USE MAGNETORESISTIVITY  
**MAGNETORESISTIVITY**  
1703 2304 2307  
OF MAGNETORESISTANCE  
BT #ELECTRICAL PROPERTIES  
ELECTRICAL RESISTIVITY  
#MAGNETIC PROPERTIES  
MAGNETOACTIVITY  
#TRANSPORT PROPERTIES  
RT CONDUCTIVITY  
ELECTROMAGNETISM  
FERMI SURFACES  
#MAGNETIC FIELDS  
RELUCTANCE  
RESISTANCE  
**MAGNETOSONIC RESONANCE**  
2301 2307 3408  
BT #RESONANCE

## MAGNETOVARIOMETERS

RT MAGNETOELASTIC WAVES  
MAGNETOHYDRODYNAMICS  
**MAGNETOSPHERE**  
1302 1307 2003 2307  
NT GEOMAGNETIC TAIL  
MAGNETOPOUSE  
BT #EARTH ATMOSPHERE  
RT EXOSPHERE  
GEOMAGNETIC HOLLOW  
GEOMAGNETISM  
HETEROSPHERE  
IONOSPHERE  
#MAGNETIC FIELDS  
PLASMA CLOUDS  
PLASMAPAUSE  
RADIATION BELTS  
SCREEN EFFECT  
THERMOSPHERE  
**MAGNETOSPHERIC ELECTRON DENSITY**  
1302 1307 2304 2307  
BT #DENSITY (NUMBER/VOLUME)  
ELECTRON DENSITY (CONCENTRATION)  
PARTICLE DENSITY (CONCENTRATION)  
RT ATMOSPHERIC DENSITY  
IONOSPHERIC ELECTRON DENSITY  
MAGNETOSPHERIC INSTABILITY  
MAGNETOSPHERIC ION DENSITY  
MAGNETOSPHERIC PROTON DENSITY  
PLASMA DENSITY  
**MAGNETOSPHERIC INSTABILITY**  
1203 1302 1307 2307  
BT #STABILITY  
RT GEOMAGNETIC PULSATIONS  
MAGNETOELASTIC WAVES  
MAGNETOPOUSE  
MAGNETOSPHERIC ELECTRON DENSITY  
MAGNETOSPHERIC ION DENSITY  
MAGNETOSPHERIC PROTON DENSITY  
**MAGNETOSPHERIC ION DENSITY**  
1302 1307 2304 2307  
NT MAGNETOSPHERIC PROTON DENSITY  
BT #DENSITY (NUMBER/VOLUME)  
ION DENSITY (CONCENTRATION)  
PARTICLE DENSITY (CONCENTRATION)  
RT ATMOSPHERIC DENSITY  
IONOSPHERIC ION DENSITY  
MAGNETOSPHERIC ELECTRON DENSITY  
MAGNETOSPHERIC INSTABILITY  
PLASMA DENSITY  
**MAGNETOSPHERIC PROTON DENSITY**  
1302 1307 2307 2403  
BT #DENSITY (NUMBER/VOLUME)  
ION DENSITY (CONCENTRATION)  
MAGNETOSPHERIC ION DENSITY  
PARTICLE DENSITY (CONCENTRATION)  
RT ATMOSPHERIC DENSITY  
MAGNETOSPHERIC ELECTRON DENSITY  
MAGNETOSPHERIC INSTABILITY  
PLASMA DENSITY  
**MAGNETOSTATIC AMPLIFIERS**  
0701 0905 2307  
BT #AMPLIFIERS  
RT MAGNETIC AMPLIFIERS  
PARAMETRIC AMPLIFIERS  
TRAVELING WAVE TUBES  
YTTRIUM-ALUMINUM GARNET  
YTTRIUM-IRON GARNET  
**MAGNETOSTATIC FIELDS**  
1307 2307 2403  
BT #MAGNETIC FIELDS  
RT FIELD THEORY (PHYSICS)  
LINES OF FORCE  
**MAGNETOSTATICS**  
2307  
BT ELECTROMAGNETISM  
RT ELECTROSTATICS  
FLUX (RATE)  
#MAGNETIC FIELDS  
**MAGNETOSTRICTION**  
2305 2307  
OF MAGNETOELASTICITY  
BT ELASTIC PROPERTIES  
#MAGNETIC PROPERTIES  
#MECHANICAL PROPERTIES  
RT ELECTROSTRICTION  
MAGNETOELASTIC WAVES  
**MAGNETOTELLURIC PROFILING**  
USE GEOMAGNETISM  
MAGNETIC SURVEYS  
**MAGNETOVARIOMETERS**  
USE VARIOMETERS

# MAGNETRONS

## MAGNETRONS

0701 0905  
 NT NIGOTRONS  
 RT CAVITY RESONATORS  
 CROSSED FIELD AMPLIFIERS  
 CROSSED FIELDS  
 ELECTROSTATIC GENERATORS  
 KLYSTRONS  
 MULTIMODE RESONATORS  
 #OSCILLATORS  
 PLANOTRONS  
 RESONATORS  
 TRAVELING WAVE TUBES

## #MAGNETS

0801 0904 1504 1701 2307  
 NT CRYOGENIC MAGNETS  
 ELECTROMAGNETS  
 FERRIMAGNETS  
 HIGH FIELD MAGNETS  
 SUPERCONDUCTING MAGNETS  
 RT ELECTRETS  
 FERROMAGNETIC MATERIALS  
 FERROMAGNETISM  
 MAGNET COILS  
 MAGNETIC CORES  
 #MAGNETIC FIELDS  
 #MAGNETIC MATERIALS  
 #MAGNETIC PROPERTIES  
 MAGNETIZATION  
 PERMALLOYS (TRADEMARK)

## MAGNIFICATION

2306 2310 2402  
 UF MAGNIFIERS  
 RT AMPLIFICATION  
 INCREASING  
 LENSES  
 PROJECTION

## MAGNIFIERS

USE MAGNIFICATION

## MAGNITUDE

1902 3408  
 RT AMPLITUDES  
 #DIMENSIONS  
 DISPLACEMENT  
 INTENSITY  
 #LEVEL (QUANTITY)

## MAGNONS

2305 2307 2309  
 UF SPIN WAVES  
 BT #ELEMENTARY EXCITATIONS  
 RT ANTIFERROMAGNETISM  
 FERRIMAGNETISM  
 FERROMAGNETISM  
 MAGNETIZATION  
 PLASMONS

## MAGNUS EFFECT

1202 1203 2308 3203  
 RT BERNOULLI THEOREM  
 BOUNDARY LAYER FLOW  
 FLUID DYNAMICS  
 #FLUID FLOW  
 MISSILE DESIGN  
 ROTATING CYLINDERS

## MAIN SEQUENCE STARS

3001 3009  
 BT #CELESTIAL BODIES  
 STARS  
 RT DWARF STARS  
 EARLY STARS  
 GIANT STARS  
 STELLAR EVOLUTION  
 STELLAR MASS  
 SUBDWARF STARS

## MAINE

1305  
 BT UNITED STATES OF AMERICA

## MAINTAINABILITY

3404 3406 3408  
 RT MAINTENANCE  
 RELIABILITY

## MAINTENANCE

0502 1505 3406  
 UF PATCHING  
 REPAIRING  
 TROUBLESHOOTING  
 NT AIRCRAFT MAINTENANCE  
 SPACE MAINTENANCE  
 RT CHECKOUT  
 CONSTRUCTION  
 DOWNTIME  
 EQUIPMENT SPECIFICATIONS  
 FIXING

GROUND CREWS  
 GROUND SUPPORT EQUIPMENT  
 INSTALLING  
 LOGISTICS  
 LOGISTICS MANAGEMENT  
 LUBRICANTS  
 LUBRICATION  
 MAINTAINABILITY  
 MANUALS  
 MECHANICAL ENGINEERING  
 RELIABILITY  
 REPLACING  
 SELF REPAIRING DEVICES  
 SERVICE LIFE  
 SHOPS  
 SPARE PARTS  
 SPECIFICATIONS

## MAJORITY CARRIERS

1002 2302 2602  
 BT CHARGE CARRIERS  
 RT #ADDITIVES  
 CARRIER INJECTION  
 ELECTRON MOBILITY  
 ELECTRONS  
 HOLES (ELECTRON DEFICIENCIES)  
 SEMICONDUCTORS (MATERIALS)

## MALAYA

1305  
 RT ASIA  
 NATIONS

## MALEATES

1808  
 BT #ALIPHATIC COMPOUNDS  
 #ESTERS

## MALES

0402 0404  
 RT FEMALES  
 SEX

## MALFUNCTIONS

1505 3009 3110  
 RT ABORTED MISSIONS  
 AIRCRAFT ACCIDENTS  
 AIRCRAFT HAZARDS  
 DOWNTIME  
 ERRORS  
 FAILURE  
 SYSTEM FAILURES

## MALKUS THEORY

1902 1905 2308  
 RT STATISTICAL MECHANICS  
 THEORIES

## MALLEABILITY

1701 1704  
 BT #MECHANICAL PROPERTIES  
 RT DUCTILITY  
 #METAL WORKING

## MALONONITRILE

1808  
 BT NITRILES

## MALTA

1305  
 BT #ISLANDS  
 RT MEDITERRANEAN SEA

## MAMMALS

0402 0404  
 NT BABOONS  
 BATS  
 CALVES  
 CATS  
 CATTLE  
 CERCOCEBUS MONKEYS  
 CHIMPANZEES  
 DEER  
 DOGS  
 DOLPHINS  
 GOATS  
 GROUND SQUIRRELS  
 GUINEA PIGS  
 HAMSTERS  
 HORSES  
 HUMAN BEINGS  
 JERBOAS  
 LIZARDS  
 MANGABEYS  
 MICE  
 MONKEYS  
 OPOSSUM  
 POCKET MICE  
 PORPOISES  
 PRIMATES  
 RABBITS  
 RATS

# NASA THESAURUS (ALPHABETICAL LISTING)

REPTILES  
 RODENTS  
 SHEEP  
 SHREWS  
 SNAKES  
 SQUIRRELS  
 SWINE  
 TURTLES  
 WHALES  
 WOLVERINES  
 WOLVES

## BT #ANIMALS

VERTEBRATES  
 RT EARTH RESOURCES  
 MAMMARY GLANDS

## MAMMARY GLANDS

0402 0404

## BT #ANATOMY

GLANDS (ANATOMY)

## RT MAMMALS

## MAN

USE HUMAN BEINGS

## MAN MACHINE SYSTEMS

0502 0503 0506  
 RT ASTRONAUT PERFORMANCE  
 AUTOMATION  
 BALANCING  
 BIONICS  
 BIOTECHNOLOGY  
 CONSOLES  
 CYBERNETICS  
 DATA PROCESSING TERMINALS  
 DEPERSONALIZATION  
 #DISPLAY DEVICES  
 ENGINEERING  
 HUMAN FACTORS ENGINEERING  
 #MANAGEMENT  
 MECHANIZATION  
 SYSTEMS  
 SYSTEMS ANALYSIS  
 SYSTEMS ENGINEERING  
 SYSTEMS MANAGEMENT  
 TELEOPERATORS

## MAN OPERATED PROPULSION SYSTEMS

0502 2102 2807 2808 3104  
 UF MOPS (PROPULSION SYSTEMS)  
 BT LOW THRUST PROPULSION

## #PROPULSION

RT ASTRONAUT LOCOMOTION  
 COMPRESSED AIR  
 EXTRAVEHICULAR ACTIVITY  
 GASEOUS ROCKET PROPELLANTS  
 MANNED SPACE FLIGHT  
 PILOT PERFORMANCE  
 RETHOROCKET ENGINES

## #MANAGEMENT

3404 3406  
 UF ADMINISTRATION  
 NT CONFIGURATION MANAGEMENT  
 CONTRACT MANAGEMENT  
 DATA MANAGEMENT  
 ENGINEERING MANAGEMENT  
 FINANCIAL MANAGEMENT  
 INDUSTRIAL MANAGEMENT  
 INFORMATION MANAGEMENT  
 INVENTORY MANAGEMENT  
 LOGISTICS MANAGEMENT  
 PERSONNEL MANAGEMENT  
 PROCUREMENT MANAGEMENT  
 PRODUCTION MANAGEMENT  
 RESEARCH MANAGEMENT  
 SAFETY MANAGEMENT  
 SYSTEMS MANAGEMENT  
 WATER MANAGEMENT

## RT AUTONOMY

CENTRAL ELECTRONIC MANAGEMENT  
 SYSTEM  
 COMMAND AND CONTROL  
 CONTRACT NEGOTIATION  
 CONTRACT NEGOTIATIONS  
 COST ANALYSIS  
 COST ESTIMATES  
 COST INCENTIVES  
 COST REDUCTION  
 CYBERNETICS  
 DECISION MAKING  
 DECISIONS  
 DIRECTION  
 ECONOMIC ANALYSIS  
 ECONOMIC FACTORS  
 EVALUATION  
 FIDUCIARIES



# NASA THESAURUS (ALPHABETICAL LISTING)

**#FORECASTING**  
 GERT  
 INCENTIVE TECHNIQUES  
 INCENTIVES  
 INFORMATION FLOW  
 INVENTORY CONTROLS  
 MAN MACHINE SYSTEMS  
 MANAGEMENT ANALYSIS  
 MARKETING  
 MISSION PLANNING  
 OPERATIONS RESEARCH  
 PERFORMANCE PREDICTION  
 PERSONNEL DEVELOPMENT  
 PREJUDICES  
 PROBLEM SOLVING  
 PROCUREMENT POLICY  
 PRODUCT DEVELOPMENT  
 PRODUCTION ENGINEERING  
 PROGRESS  
 PROJECT PLANNING  
 RESEARCH PROJECTS  
**#STATISTICAL ANALYSIS**  
 SYSTEMS DESIGN  
 SYSTEMS ENGINEERING

**MANAGEMENT ANALYSIS**  
 3404 3406  
 RT ANALYZING  
 COST ANALYSIS  
 GERT  
**#MANAGEMENT**  
 MANAGEMENT PLANNING  
 MANAGEMENT SYSTEMS  
 PERT  
 TRADEOFFS

**MANAGEMENT INFORMATION SYSTEMS**  
 3405 3406  
 BT INFORMATION SYSTEMS  
 MANAGEMENT SYSTEMS  
 RT COMPUTER TECHNIQUES  
 DATA RETRIEVAL  
 DATA STORAGE  
 DATA SYSTEMS  
 INFORMATION RETRIEVAL  
 INFORMATION THEORY

**MANAGEMENT METHODS**  
 3404 3406  
 RT COMPUTER TECHNIQUES  
 COST REDUCTION  
 CRITICAL PATH METHOD  
 DECISION MAKING  
 ESTIMATES  
**#FORECASTING**  
 GERT  
 INCENTIVES  
 MANAGEMENT PLANNING  
 MANAGEMENT SYSTEMS  
 METHODOLOGY  
 OPERATIONS RESEARCH  
 PERT  
 SYSTEMS MANAGEMENT

**MANAGEMENT PLANNING**  
 3404 3406  
 NT PRODUCTION PLANNING  
 PROJECT PLANNING  
 RT CONSULTING  
 COST ANALYSIS  
 COST REDUCTION  
 DECISION MAKING  
 DEVELOPMENT  
 ECONOMY  
 ESTIMATES  
 FINANCE  
**#FORECASTING**  
 GERT  
**#INTERFACES**  
 MANAGEMENT ANALYSIS  
 MANAGEMENT METHODS  
 MEDIATION  
 MISSION PLANNING  
 OPERATIONS RESEARCH  
 PERSONNEL MANAGEMENT  
 PERT  
 PLANNING  
 PROGRAM TREND LINE ANALYSIS  
 PROJECT MANAGEMENT  
 RESEARCH AND DEVELOPMENT  
 SELECTIVE DISSEMINATION OF  
 INFORMATION  
 SYSTEMS ENGINEERING  
 TRADEOFFS  
 VALUE ENGINEERING

**MANAGEMENT SYSTEMS**  
 3406  
 RT MANAGEMENT INFORMATION SYSTEMS  
 RT COMPUTER TECHNIQUES  
 INFORMATION SYSTEMS  
 MANAGEMENT ANALYSIS  
 MANAGEMENT METHODS  
 PROJECT MANAGEMENT  
 SYSTEMS

**MANDELSTAM REPRESENTATION**  
 0705 0904 2304 2306 2309 2402 2601  
 RT ELECTROMAGNETIC ABSORPTION  
 INELASTIC SCATTERING  
 LORENTZ TRANSFORMATIONS  
 MICROWAVE SCATTERING  
 NUCLEAR SCATTERING  
 QUANTUM THEORY  
 RADAR ATTENUATION

**MANDELS**  
 1504  
 RT CORES  
 MACHINE TOOLS  
 MOLDS  
 SHAFTS (MACHINE ELEMENTS)

**MANEUVERABILITY**  
 0101 0201 2102 3110  
 RT AIRCRAFT CONTROL  
 AIRCRAFT PERFORMANCE  
 CONTROLLABILITY  
 FLIGHT CHARACTERISTICS  
**#FLIGHT CONTROL**  
 HELICOPTER PERFORMANCE  
**#MANEUVERS**  
 SPACECRAFT MANEUVERS

**MANEUVERABLE REENTRY BODIES**  
 3105 3110  
 BT REENTRY VEHICLES  
 SPACECRAFT MANEUVERS  
 RT BODIES  
**#MANEUVERABLE SPACECRAFT**  
**MANEUVERABLE SATELLITES**  
 USE #MANEUVERABLE SPACECRAFT  
**#SATELLITES**  
**#MANEUVERABLE SPACECRAFT**  
 2102 3104 3105 3110  
 UP MANEUVERABLE SATELLITES  
 NT AEROSPACEPLANES  
 APOLLO SPACECRAFT  
 ASTRO VEHICLE  
 ASTROPLANE  
 EVASIVE SATELLITES  
 FERRY SPACECRAFT  
 HL-10 REENTRY VEHICLE  
 HLD-35 REENTRY VEHICLE  
 JANUS SPACECRAFT  
 LIFTING REENTRY VEHICLES  
 M-2 LIFTING BODY  
 RENDEZVOUS SPACECRAFT  
 RT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
**#INTERPLANETARY SPACECRAFT**  
 LANDING MODULES  
 LUNAR LANDING MODULES  
 LUNAR PROBES  
 LUNAR SATELLITES  
 MANEUVERABLE REENTRY BODIES  
**#MANNED SPACECRAFT**  
 MARS (MANNED REUSABLE SPACECRAFT)  
 RECOVERABLE SPACECRAFT  
**#REENTRY VEHICLES**  
 SPACE PROBES  
 SPACECRAFT  
 SPACECRAFT MANEUVERS  
 THRUST VECTOR CONTROL

**#MANEUVERS**  
 0201 2102 3004 3007 3102  
 RT EARTH ORBITAL RENDEZVOUS  
 LUNAR ORBITAL RENDEZVOUS  
 ORBITAL RENDEZVOUS  
 SIDESLIP  
 SPACECRAFT DOCKING  
 SPACECRAFT MANEUVERS  
 RT ACROBATICS  
**#FLIGHT CONTROL**  
**#LANDING**  
 MANEUVERABILITY  
 SELF MANEUVERING UNITS  
 TAKEOFF  
 TURNING FLIGHT

**MANGABETS**  
 0402 0404  
 BT #ANIMALS

**MANIPULATORS**

CHIMPANZEES  
 MAMMALS  
 MONKEYS  
 VERTEBRATES

**MANGANESE**  
 0603 1703  
 NT MANGANESE ISOTOPES  
 BT #CHEMICAL ELEMENTS  
**#METALS**  
 TRANSITION METALS  
**MANGANESE ALLOYS**  
 1701 1704  
 NT MANGANIN (TRADEMARK)  
 BT #ALLOYS  
**#MANGANESE COMPOUNDS**  
 0603  
 NT HODGKINSONITE  
 HOPCALITE (TRADEMARK)  
 MANGANESE OXIDES  
 MANGANESE PHOSPHIDES  
 PERMANGANATES  
 SODIUM PERMANGANATES  
 GROUP 7B COMPOUNDS  
 METAL COMPOUNDS

**MANGANESE IONS**  
 0603 1804  
 BT CATIONS  
 CHARGED PARTICLES  
**#IONS**  
 METAL IONS  
**#PARTICLES**  
 RT PERMANGANATES  
**MANGANESE ISOTOPES**  
 2406  
 UP MANGANESE 53  
 MANGANESE 54  
 MANGANESE 56  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 MANGANESE  
 NUCLIDES  
 TRANSITION METALS  
**MANGANESE OXIDES**  
 0603 1804  
 NT HOPCALITE (TRADEMARK)  
 BT #CHALCOGENIDES  
**#MANGANESE COMPOUNDS**  
 METAL OXIDES  
 OXIDES  
**MANGANESE PHOSPHIDES**  
 0603 1804  
 BT #MANGANESE COMPOUNDS  
 PHOSPHIDES  
**#PHOSPHORUS COMPOUNDS**  
**MANGANESE 53**  
 USE MANGANESE ISOTOPES  
**MANGANESE 54**  
 USE MANGANESE ISOTOPES  
**MANGANESE 56**  
 USE MANGANESE ISOTOPES  
**MANGANIN (TRADEMARK)**  
 0603 1804  
 BT #ALLOYS  
 COPPER ALLOYS  
 MANGANESE ALLOYS  
 RT ELECTRICAL RESISTANCE  
 THERMOCOUPLES

**MANIFOLDS**  
 0202 1504 3203  
 RT AIR INTAKES  
 EXHAUST SYSTEMS  
 FUEL SYSTEMS  
**#INTAKE SYSTEMS**  
 PIPES (TUBES)  
 PLENUM CHAMBERS  
 TUBES  
 WATER INTAKES

**MANIFOLDS (MATHEMATICS)**  
 1902  
 RT #COORDINATES  
 CURVES (GEOMETRY)  
 EUCLIDEAN SPACE  
 FIBERS (MATHEMATICS)  
 FIXED POINTS (MATHEMATICS)  
 FIXED POINTS (MATHEMATICS)  
 TOPOLOGY

**MANIPULATION**  
 USE MANIPULATORS  
**MANIPULATORS**  
 0503 2102 2104  
 (MECHANICAL DEVICES FOR REMOTE  
 HANDLING)

# MANITOBA

UP MANIPULATION  
 RT CONTROL EQUIPMENT  
 REMOTE CONTROL  
 REMOTE HANDLING  
 SERVOCONTROL  
 #SHIELDING  
 TELEOPERATORS  
 MANITOBA  
 1305  
 BT CANADA  
 MANN-WHITNEY-WILCOXON U TEST  
 1905  
 BT #STATISTICAL ANALYSIS  
 STATISTICAL TESTS  
 RT QUALITY CONTROL  
 MANNED AERODYNAMIC REUSABLE SPACESHIP  
 USE MARS (MANNED REUSABLE SPACECRAFT)  
 MANNED LUNAR SURFACE VEHICLES  
 1105 3004 3110  
 UP MOONMOBILES  
 BT LUNAR ROVING VEHICLES  
 LUNAR SURFACE VEHICLES  
 #SURFACE VEHICLES  
 RT CRAWLER TRACTORS  
 LUNAR LOGISTICS  
 LUNAR MOBILE LABORATORIES  
 WALKING MACHINES  
 MANNED ORBITAL LABORATORIES  
 3104 3109 3409  
 UP MOL (ORBITAL LABORATORIES)  
 NT MANNED ORBITAL RESEARCH  
 LABORATORIES  
 BT #LABORATORIES  
 #MANNED SPACECRAFT  
 SPACE LABORATORIES  
 RT APOLLO SPACECRAFT  
 MANNED ORBITAL TELESCOPES  
 ORBITAL SPACE STATIONS  
 ORBITAL WORKSHOPS  
 RECONNAISSANCE SPACECRAFT  
 TITAN 3 LAUNCH VEHICLE  
 MANNED ORBITAL RESEARCH LABORATORIES  
 3104 3109 3409  
 UP MORL  
 BT #LABORATORIES  
 MANNED ORBITAL LABORATORIES  
 #MANNED SPACECRAFT  
 SPACE LABORATORIES  
 RT APOLLO SPACECRAFT  
 ORBITAL SPACE STATIONS  
 SPACECRAFT  
 MANNED ORBITAL SPACE STATIONS  
 USE ORBITAL SPACE STATIONS  
 MANNED ORBITAL TELESCOPES  
 1412 3104 3109  
 UP NOT (ORBITAL TELESCOPES)  
 NT APOLLO TELESCOPE MOUNT  
 BT #TELESCOPES  
 RT ASTRONOMICAL TELESCOPES  
 MANNED ORBITAL LABORATORIES  
 QAO  
 MANNED REENTRY  
 0502 3009 3104 3105 3303 3305  
 BT #ATMOSPHERIC ENTRY  
 MANNED SPACE FLIGHT  
 REENTRY  
 #SPACE FLIGHT  
 RT DESCENT TRAJECTORIES  
 ENVIRONMENTAL CONTROL  
 LIFTING REENTRY VEHICLES  
 REENTRY COMMUNICATION  
 SPACECRAFT REENTRY  
 MANNED SPACE FLIGHT  
 3009 3104 3105  
 NT APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 9 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT  
 APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 APOLLO FLIGHTS  
 GEMINI 3 FLIGHT  
 GEMINI 4 FLIGHT  
 GEMINI 5 FLIGHT  
 GEMINI 6 FLIGHT  
 GEMINI 7 FLIGHT  
 GEMINI 8 FLIGHT  
 GEMINI 9 FLIGHT

GEMINI 10 FLIGHT  
 GEMINI 11 FLIGHT  
 GEMINI 12 FLIGHT  
 GEMINI FLIGHTS  
 MANNED REENTRY  
 MERCURY FLIGHTS  
 MERCURY MA-1 FLIGHT  
 MERCURY MA-2 FLIGHT  
 MERCURY MA-3 FLIGHT  
 MERCURY MA-4 FLIGHT  
 MERCURY MA-5 FLIGHT  
 MERCURY MA-6 FLIGHT  
 MERCURY MA-7 FLIGHT  
 MERCURY MA-8 FLIGHT  
 MERCURY MA-9 FLIGHT  
 MERCURY MR-1 FLIGHT  
 MERCURY MR-2 FLIGHT  
 MERCURY MR-3 FLIGHT  
 MERCURY MR-4 FLIGHT  
 BT #SPACE FLIGHT  
 RT AEROSPACE ENVIRONMENTS  
 APOLLO EXTENSION SYSTEM  
 EXTRAVEHICULAR ACTIVITY  
 GEMINI (GT-1) SPACECRAFT  
 GEMINI B SPACECRAFT  
 GEMINI SPACECRAFT  
 GEMINI 2 SPACECRAFT  
 HUMAN FACTORS ENGINEERING  
 INTERPLANETARY FLIGHT  
 INTERSTELLAR TRAVEL  
 INTRAHEHICULAR ACTIVITY  
 MAN OPERATED PROPULSION SYSTEMS  
 MANNED SPACE FLIGHT NETWORK  
 #MANNED SPACECRAFT  
 MERCURY PROJECT  
 SPACE COMMUNICATION  
 SPACE EXPLORATION  
 SPACE FLIGHT STRESS  
 SPACE LOGISTICS  
 SPACE PROGRAMS  
 SPACE SHUTTLES  
 SUBORBITAL FLIGHT  
 MANNED SPACE FLIGHT NETWORK  
 0702 0709 1109  
 BT TRACKING NETWORKS  
 RT MANNED SPACE FLIGHT  
 UNIFIED S BAND  
 #MANNED SPACECRAFT  
 3104 3105  
 NT AEROSPACEPLANES  
 APOLLO SPACECRAFT  
 ASTRO VEHICLE  
 ASTROPLANE  
 AURORA 7  
 FAITH 7  
 FERRY SPACECRAFT  
 FREEDOM 7  
 FRIENDSHIP 7  
 GEMINI (GT-1) SPACECRAFT  
 GEMINI B SPACECRAFT  
 GEMINI SPACECRAFT  
 GEMINI 2 SPACECRAFT  
 JANUS SPACECRAFT  
 LIBERTY BELL 7  
 LUNAR MODULE  
 LUNAR MODULE 5  
 LUNAR MODULE 7  
 MANNED ORBITAL LABORATORIES  
 MANNED ORBITAL RESEARCH  
 LABORATORIES  
 MARS (MANNED REUSABLE SPACECRAFT)  
 MERCURY SPACECRAFT  
 ORBITAL SPACE STATIONS  
 ORBITAL WORKSHOPS  
 SIGMA 7  
 SOYUZ SPACECRAFT  
 SPACE SHUTTLES  
 SPACE STATIONS  
 VOSKHOD MANNED SPACECRAFT  
 VOSKHOD 1 SPACECRAFT  
 VOSKHOD 2 SPACECRAFT  
 VOSTOK SPACECRAFT  
 VOSTOK 1 SPACECRAFT  
 VOSTOK 2 SPACECRAFT  
 VOSTOK 3 SPACECRAFT  
 VOSTOK 4 SPACECRAFT  
 VOSTOK 5 SPACECRAFT  
 VOSTOK 6 SPACECRAFT  
 APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT

# NASA THESAURUS (ALPHABETICAL LISTING)

APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 APOLLO PROJECT  
 ARTIFICIAL SATELLITES  
 BIOSATELLITES  
 BOOSTGLIDE VEHICLES  
 EARTH SATELLITES  
 ENVIRONMENTAL CONTROL  
 GRAVITY GRADIENT SATELLITES  
 #INTERPLANETARY SPACECRAFT  
 LANDING MODULES  
 LIFTING REENTRY VEHICLES  
 LUNAR LANDING MODULES  
 LUNAR SATELLITES  
 #LUNAR SPACECRAFT  
 #MANEUVERABLE SPACECRAFT  
 MANNED SPACE FLIGHT  
 MERCURY FLIGHTS  
 MERCURY PROJECT  
 #MILITARY SPACECRAFT  
 RECONNAISSANCE SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 RENDEZVOUS SPACECRAFT  
 REUSABLE SPACECRAFT  
 #SATELLITES  
 #SPACE CAPSULES  
 SPACE NAVIGATION  
 SPACECRAFT  
 SPACECRAFT CABIN SIMULATORS  
 #UNMANNED SPACECRAFT  
 X-20 AIRCRAFT  
 MANNING THEORY  
 1202 1204 3303  
 RT #FLUID FLOW  
 WALL FLOW  
 MANNITOL  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 SUGARS  
 MANOMETERS  
 1203 1408  
 UP MICROMANOMETERS  
 U TUBES  
 BT #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 RT BAROMETERS  
 BLOOD PRESSURE  
 FLAME PROBES  
 ISOTENSICOPES  
 PRESSURE DISTRIBUTION  
 PRESSURE MEASUREMENTS  
 VACUUM GAGES  
 MANPOWER  
 3402 3406  
 NT SCIENTISTS  
 RT ENGINEERING MANAGEMENT  
 LABOR  
 #PERSONNEL  
 RESEARCH MANAGEMENT  
 MANTLE (EARTH STRUCTURE)  
 USE EARTH MANTLE  
 MANUAL  
 3405  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT MANUAL CONTROL  
 MANUALS  
 MANUAL CONTROL  
 0503 0506 1402 2104  
 RT AIRCRAFT CONTROL  
 #ATTITUDE CONTROL  
 #AUTOMATIC CONTROL  
 BUTTONS  
 CONSOLES  
 CONTROL  
 CONTROL BOARDS  
 CONTROL EQUIPMENT  
 DIRECTIONAL CONTROL  
 ENGINE CONTROL  
 #GUIDANCE (NOTION)  
 HANDLES  
 HELICOPTER CONTROL  
 HUMAN FACTORS ENGINEERING  
 KNOBS  
 LANDING INSTRUMENTS  
 LATERAL CONTROL  
 LEVERS

# NASA THESAURUS (ALPHABETICAL LISTING)

LONGITUDINAL CONTROL  
 MANUAL  
 PEDALS  
 REENTRY GUIDANCE  
 REMOTE CONTROL  
 SATELLITE CONTROL  
 SATELLITE GUIDANCE  
 SERVOCONTROL  
 #SPACECRAFT CONTROL  
 SPACECRAFT GUIDANCE  
 SPEED CONTROL  
 TEMPERATURE CONTROL  
 MANUALS  
 3405  
 NT INSTALLATION MANUALS  
 BT #DOCUMENTS  
 RT HANDBOOKS  
 MAINTENANCE  
 MANUAL  
 TEXTBOOKS  
 MANUFACTURING  
 3404  
 NT LOW GRAVITY MANUFACTURING  
 RT COMMERCE  
 CONTAINERLESS MELTS  
 CONTRACT NEGOTIATION  
 FABRICATION  
 #INDUSTRIES  
 PROCESSING  
 PRODUCTION MANAGEMENT  
 TECHNOLOGIES  
 TECHNOLOGY ASSESSMENT  
 TECHNOLOGY UTILIZATION  
 MANY BODY PROBLEM  
 1901 1902 3001 3002 3009  
 UP MANY PARTICLE THEORY  
 RT BCS THEORY  
 CELESTIAL MECHANICS  
 #ELEMENTARY EXCITATIONS  
 FIELD THEORY (PHYSICS)  
 FOUR BODY PROBLEM  
 GREEN FUNCTION  
 HARTREE APPROXIMATION  
 ORBITAL MECHANICS  
 #ORBITS  
 PARTICLE THEORY  
 #PERTURBATION  
 PERTURBATION THEORY  
 PROBLEMS  
 QUANTUM STATISTICS  
 STATISTICAL MECHANICS  
 SUPERFLUIDITY  
 THREE BODY PROBLEM  
 TROJAN ORBITS  
 TWO BODY PROBLEM  
 MANY PARTICLE THEORY  
 USE MANY BODY PROBLEM  
 MAP (PROGRAMMING LANGUAGE)  
 0802  
 BT ASSEMBLY LANGUAGE  
 #LANGUAGES  
 MACHINE ORIENTED LANGUAGES  
 RT COMPUTER PROGRAMMING  
 MAP MATCHING GUIDANCE  
 1410 2102 2104  
 BT #GUIDANCE (MOTION)  
 RT AIRBORNE EQUIPMENT  
 #DISPLAY DEVICES  
 IMAGE CORRELATORS  
 PASSENGER AIRCRAFT  
 RADAR MAPS  
 RADAR NAVIGATION  
 MAPPING  
 1303 1902  
 (EXCLUDES CONFORMAL MAPPING)  
 UP CARTOGRAPHY  
 FLUX MAPPING  
 NT CADASTRAL MAPPING  
 ICE MAPPING  
 ORTHOPHOTOGRAHY  
 SOIL MAPPING  
 RT ASTROGRAHY  
 CONTOURS  
 DECLINATION  
 FIXED POINTS (MATHEMATICS)  
 #FUNCTIONS (MATHEMATICS)  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 GEOGRAPHY  
 #MAPS  
 ORTHOPHOTOGRAHY  
 PHOTOGRAMMETRY  
 #PHOTOGRAPHY

SCALE (RATIO)  
 SURVEYS  
 TERRAIN ANALYSIS  
 TOPOGRAPHY  
 TOPOLOGY  
 TRIANGULATION  
 #MAPS  
 1303 1308 1902 2003 2103 3001  
 NT ASTRONOMICAL MAPS  
 LUNAR MAPS  
 METEOROLOGICAL CHARTS  
 PLANISPHERES  
 RADAR CLUTTER MAPS  
 RADAR MAPS  
 RELIEF MAPS  
 RT CADASTRAL MAPPING  
 #CHARTS  
 #COORDINATES  
 DATUM (ELEVATION)  
 GEOGRAPHY  
 GLOBES  
 MAPPING  
 MERCATOR PROJECTION  
 #NAVIGATION AIDS  
 SOIL MAPPING  
 SURVEYS  
 MARAGING  
 1704 3407  
 BT #HARDENING (MATERIALS)  
 #HEAT TREATMENT  
 PRECIPITATION HARDENING  
 MARAGING STEELS  
 1701 1704  
 BT #ALLOYS  
 HIGH STRENGTH ALLOYS  
 HIGH STRENGTH STEELS  
 IRON ALLOYS  
 STEELS  
 RT MARTENSITIC STAINLESS STEELS  
 STAINLESS STEELS  
 MARBORE 2 ENGINE  
 USE J-69-T-25 ENGINE  
 MARGINS  
 3203  
 RT RIMS  
 MARIA  
 3004 3007 3009  
 NT LUNAR MARIA  
 RT LAVA  
 METEORITE CRATERS  
 TOPOGRAPHY  
 MARINE BIOLOGY  
 0404 1310  
 RT BIOLOGY  
 MARINE TECHNOLOGY  
 OCEANOGRAPHY  
 THERMAL POLLUTION  
 MARINE NAVIGATION  
 USE SURFACE NAVIGATION  
 MARINE PROPULSION  
 2202  
 UP SHIP PROPULSION  
 NT SUBMARINE PROPULSION  
 UNDERWATER PROPULSION  
 BT #PROPULSION  
 RT CHEMICAL PROPULSION  
 ELECTRIC PROPULSION  
 JET PROPULSION  
 NUCLEAR ELECTRIC PROPULSION  
 NUCLEAR PROPULSION  
 PROPELLER DRIVE  
 SAVANNAH NUCLEAR SHIP  
 MARINE RUDDERS  
 1204  
 BT #CONTROL SURFACES  
 RUDDERS  
 RT AERIAL RUDDERS  
 HYDROFOILS  
 TAIL ASSEMBLIES  
 MARINE TECHNOLOGY  
 3404  
 BT TECHNOLOGIES  
 RT MARINE BIOLOGY  
 OCEANOGRAPHY  
 MARINER C SPACECRAFT  
 3007 3108  
 BT MARINER SPACECRAFT  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER-MERCURY 1973  
 3007 3108  
 BT FLYBY MISSIONS

MARINER SPACE PROBES  
 INTERPLANETARY SPACECRAFT  
 MARINER PROGRAM  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 RT MARINER VENUS-MERCURY 1973  
 MARINER PROGRAM  
 3007 3108 3409  
 NT MARINER-MERCURY 1973  
 MARINER VENUS-MERCURY 1973  
 BT NASA PROGRAMS  
 #PROGRAMS  
 RT AGENA B ROCKET VEHICLE  
 AGENA ROCKET VEHICLES  
 ATLAS AGENA LAUNCH VEHICLES  
 ATLAS LAUNCH VEHICLES  
 CENTAUR PROJECT  
 FLYBY MISSIONS  
 MARINER SPACE PROBES  
 MARINER VENUS 67 SPACECRAFT  
 MARS PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENUS PROBES  
 MARINER R 1 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER R 2 SPACE PROBE  
 3007 3108 3409  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER 1 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENUS PROBES  
 MARINER 2 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENUS PROBES  
 MARINER 3 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 MARS PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER 4 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 MARS PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER 5 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENUS PROBES  
 RT ATLAS AGENA B LAUNCH VEHICLE  
 MARINER 6 SPACE PROBE  
 3108  
 BT MARINER SPACE PROBES  
 MARS PROBES  
 RT ATLAS AGENA LAUNCH VEHICLES  
 MARS 69 PROJECT  
 MARINER 7 SPACE PROBE  
 3108  
 BT MARINER SPACE PROBES  
 MARS PROBES  
 BT MARS 69 PROJECT  
 MARINER 11 SPACE PROBE  
 3007 3108  
 BT #INTERPLANETARY SPACECRAFT  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER SPACE PROBES  
 3007 3108 3409

# MARINER SPACECRAFT

NT MARINER-MERCURY 1973  
 MARINER R 1 SPACE PROBE  
 MARINER R 2 SPACE PROBE  
 MARINER 1 SPACE PROBE  
 MARINER 2 SPACE PROBE  
 MARINER 3 SPACE PROBE  
 MARINER 4 SPACE PROBE  
 MARINER 5 SPACE PROBE  
 MARINER 6 SPACE PROBE  
 MARINER 7 SPACE PROBE  
 MARINER 11 SPACE PROBE  
 MARINER VENUS-MERCURY 1973  
 BT \*INTERPLANETARY SPACECRAFT  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 RT MARINER PROGRAM  
 MARINER VENUS 67 SPACECRAFT  
 MARINER SPACECRAFT  
 3007 3108 3409 3110  
 UF MARS SPACECRAFT  
 NT MARINER C SPACECRAFT  
 MARINER VENUS 67 SPACECRAFT  
 BT SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARINER VENUS-MERCURY 1973  
 3007 3108  
 BT FLYBY MISSIONS  
 #INTERPLANETARY SPACECRAFT  
 MARINER PROGRAM  
 MARINER SPACE PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 RT MARINER-MERCURY 1973  
 MARINER VENUS 67 SPACECRAFT  
 3007 3108 3409  
 BT \*INTERPLANETARY SPACECRAFT  
 MARINER SPACECRAFT  
 SCIENTIFIC SATELLITES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 RT MARINER PROGRAM  
 MARINER SPACE PROBES  
 VENUS PROBES  
 MARK 1 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 MARK 2 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 MARK 3 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 MARK 4 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 5 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 6 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 10 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 11 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 12 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 17 REENTRY BODY  
 3105  
 BT #REENTRY VEHICLES  
 RT INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 1 SPACECRAFT  
 3110  
 RT #SATELLITES

SPACECRAFT  
 MARKERS  
 0203 0701 0705 1402  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERM LISTED  
 BELOW)  
 RT BEACONS  
 BUOYS  
 CRAYONS  
 DYES  
 RADIO BEACONS  
 RUNWAY LIGHTS  
 SMOKE  
 MARKET RESEARCH  
 3402  
 BT #RESEARCH  
 RT COMMERCE  
 COMMODITIES  
 CONSUMERS  
 MARKETING  
 PRODUCT DEVELOPMENT  
 MARKETING  
 3402  
 RT COMMERCE  
 CONSUMERS  
 FINANCE  
 #MANAGEMENT  
 MARKET RESEARCH  
 PRODUCT DEVELOPMENT  
 SUPPLYING  
 MARKING  
 1103 1409 1504 1505 3406 3407  
 UF LABELING (MARKING)  
 TAGGING  
 NT ISOTOPIC LABELING  
 RT #DETECTION  
 IDENTIFYING  
 MATERIALS HANDLING  
 PACKAGING  
 STAINING  
 TRACERS  
 MARKOV CHAINS  
 0802 1902 1905  
 BT MARKOV PROCESSES  
 #STOCHASTIC PROCESSES  
 RT MONTE CARLO METHOD  
 RANDOM WALK  
 MARKOV PROCESSES  
 0802 1902 1905  
 RT MARKOV CHAINS  
 BT #STOCHASTIC PROCESSES  
 RT RANDOM PROCESSES  
 MARKQUADRT R4D ENGINE  
 2102 3004 3006 3007  
 BT #ENGINES  
 RT APOLLO PROJECT  
 AUXILIARY PROPULSION  
 COMMAND MODULES  
 REACTION CONTROL  
 SATELLITE ATTITUDE CONTROL  
 #SPACECRAFT CONTROL  
 MARKOV  
 0402 0404  
 BT #ANATOMY  
 BONES  
 CONNECTIVE TISSUE  
 MUSCULOSKELETAL SYSTEM  
 MARS  
 3007 3008  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT MARS (MANNED REUSABLE SPACECRAFT)  
 MARS (PLANET)  
 #NAVIGATION AIDS  
 TRACKING STATIONS  
 MARS (MANNED REUSABLE SPACECRAFT)  
 3104  
 (NOT RESTRICTED ONLY TO SPACECRAFT FOR  
 FLIGHT TO PLANET MARS)  
 UF MANNED AERODYNAMIC REUSABLE  
 SPACESHIP  
 BT #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 REUSABLE SPACECRAFT  
 RT FERRY SPACECRAFT  
 #MANEUVERABLE SPACECRAFT  
 MARS  
 MARS (PLANET)  
 3001 3002 3007 3008  
 BT #CELESTIAL BODIES

# MARS TREASURY (ALPHABETICAL LISTING)

PLANETS  
 DEIMOS  
 MARS  
 MARS ATMOSPHERE  
 MARS ENVIRONMENT  
 MARS SURFACE  
 PHOBOS  
 POLAR CAPS  
 MARS ATMOSPHERE  
 3007 3008  
 BT #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 MARS ENVIRONMENT  
 PLANETARY ATMOSPHERES  
 PLANETARY ENVIRONMENTS  
 AEROSPACE ENVIRONMENTS  
 MARS (PLANET)  
 MARS ENVIRONMENT  
 3007 3008  
 NT MARS ATMOSPHERE  
 BT #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 PLANETARY ENVIRONMENTS  
 MARS (PLANET)  
 MARS SURFACE  
 MARS EXCURSION MODULE  
 3007 3110  
 UF MEM (EXCURSION MODULE)  
 BT LANDING MODULES  
 #MODULES  
 #SOFT LANDING SPACECRAFT  
 #SPACECRAFT COMPONENTS  
 SPACECRAFT MODULES  
 MARS LANDING  
 1105  
 BT #LANDING  
 SPACECRAFT LANDING  
 RT PLANETARY LANDING  
 SOFT LANDING  
 MARS PROBES  
 3007 3108  
 NT MARINER 3 SPACE PROBE  
 MARINER 4 SPACE PROBE  
 MARINER 6 SPACE PROBE  
 MARINER 7 SPACE PROBE  
 MARS 1 SPACECRAFT  
 VIKING LANDER SPACECRAFT  
 VIKING MARS PROGRAM  
 VIKING ORBITER SPACECRAFT  
 ZOND 2 SPACE PROBE  
 BT #INTERPLANETARY SPACECRAFT  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 RT MARINER PROGRAM  
 MARS 69 PROJECT  
 MARS 71 PROJECT  
 OUTER PLANETS EXPLORERS  
 VENUS PROBES  
 VOYAGER PROJECT  
 ZOND SPACE PROBES  
 MARS 69 PROJECT  
 3007 3008 3108  
 BT NASA PROGRAMS  
 #PROGRAMS  
 PROJECTS  
 RT MARINER 6 SPACE PROBE  
 MARINER 7 SPACE PROBE  
 MARS PROBES  
 SPACE EXPLORATION  
 MARS 71 PROJECT  
 3007 3008 3108  
 BT NASA PROGRAMS  
 #PROGRAMS  
 PROJECTS  
 RT MARS PROBES  
 SPACE EXPLORATION  
 MARS SPACECRAFT  
 USE MARINER SPACECRAFT  
 MARS 1 SPACECRAFT  
 3104 3109 3409  
 BT #INTERPLANETARY SPACECRAFT  
 MARS PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 MARS SURFACE  
 3001 3008  
 BT PLANETARY SURFACES  
 RT CANALS  
 MARS (PLANET)  
 MARS ENVIRONMENT  
 METEORITE CRATERS  
 TOPOGRAPHY

# NASA THESAURUS (ALPHABETICAL LISTING)

# HATCHING

**MARSHLANDS**  
1305 1306 1308 1310  
RT EARTH RESOURCES  
EARTH SURFACE  
OCEANOGRAPHY  
**MARTENSITE**  
1701 1704  
RT AUSTENITE  
#HARDENING (MATERIALS)  
#HEAT TREATMENT  
IRON ALLOYS  
MARTENSITIC STAINLESS STEELS  
MICROSTRUCTURE  
#PHASE TRANSFORMATIONS  
STEELS  
**MARTENSITIC STAINLESS STEELS**  
1701 1704  
BT #ALLOYS  
IRON ALLOYS  
STAINLESS STEELS  
STEELS  
RT AUSTENITIC STAINLESS STEELS  
HARDING STEELS  
HARTENSITE  
**MARTIN AIRCRAFT**  
0204 0207  
UF MARTIN MILITARY AIRCRAFT  
RT B-26 AIRCRAFT  
B-57 AIRCRAFT  
RT AIRCRAFT  
**MARTIN MILITARY AIRCRAFT**  
USE MARTIN AIRCRAFT  
**MARYLAND**  
1305  
BT UNITED STATES OF AMERICA  
**MASCONS**  
1307 1309 2311 2405  
BT CONCENTRATION (COMPOSITION)  
RT GRAVITY ANOMALIES  
#MASS  
WEIGHT (MASS)  
**MASER OUTPUTS**  
1601 2306 2402  
BT OUTPUT  
RT COHERENCE  
LASER OUTPUTS  
PULSE DURATION  
RADIANT FLUX DENSITY  
WAVELENGTHS  
**MASER RESONATORS**  
USE MASERS  
**MASERS**  
1601  
UF MASER RESONATORS  
PARAMAGNETIC AMPLIFIERS  
RASERS  
RT GAS MASERS  
PROTON MASERS  
TRAVELING WAVE MASERS  
BT #STIMULATED EMISSION DEVICES  
RT #AMPLIFIERS  
ATOMIC CLOCKS  
COHERENT ELECTROMAGNETIC RADIATION  
CROSS RELAXATION  
FREQUENCY STANDARDS  
LASERS  
MICROWAVE AMPLIFIERS  
MOLECULAR OSCILLATORS  
RESONATORS  
STIMULATED EMISSION  
TRANSIENT OSCILLATIONS  
**MASKING**  
0702 0802  
RT AUDIOMETRY  
CHEMISORPTION  
COVERINGS  
**MASKS**  
0504 0507 0508 1504  
RT OXYGEN MASKS  
RT PROTECTIVE CLOTHING  
**MASONITE (TRADEMARK)**  
1805  
RT CELLULOSE  
CONSTRUCTION MATERIALS  
TREES (PLANTS)  
WOOD  
**MASONRY**  
1805 3202 3203  
RT BRICKS  
RT CEMENTS  
CERAMICS  
CLAYS  
**CONCRETES**  
CONSTRUCTION  
CONSTRUCTION MATERIALS  
MORTARS (MATERIAL)  
#STRUCTURAL MEMBERS  
VENEERS  
**#MASS**  
2311 2405 3408  
UF LOW MASS  
RT CRITICAL MASS  
ELECTRON MASS  
PARTICLE MASS  
PLANETARY MASS  
STELLAR MASS  
SUBCRITICAL MASS  
RT CENTER OF GRAVITY  
DE BROGLIE WAVELENGTHS  
#INERTIA  
MASCONS  
MOMENTS OF INERTIA  
RELATIVISTIC EFFECTS  
WEIGHT (MASS)  
**MASS BALANCE**  
0101 0102 2308  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BALANCE  
MASS DISTRIBUTION  
MATERIAL BALANCE  
VARIABLE MASS SYSTEMS  
**MASS DISTRIBUTION**  
2405 2901 3001 3005 3009  
BT #DISTRIBUTION (PROPERTY)  
RT AERODYNAMIC BALANCE  
AERODYNAMIC STABILITY  
ANGULAR DISTRIBUTION  
BALANCE  
BALLAST (MASS)  
CHARGE DISTRIBUTION  
COSMOLOGY  
COUNTERBALANCES  
DISTRIBUTION  
FLUX DENSITY  
FORCE DISTRIBUTION  
INTERGALACTIC MEDIA  
INTERPLANETARY MEDIUM  
INTERSTELLAR MATTER  
LOADING MOMENTS  
#LOADS (FORCES)  
MASS BALANCE  
METEOROID CONCENTRATION  
MOMENT DISTRIBUTION  
MOMENTS OF INERTIA  
PRESSURE DISTRIBUTION  
STAR DISTRIBUTION  
STATIC LOADS  
VARIABLE MASS SYSTEMS  
**MASS FILTERS**  
USE FLUID FILTERS  
**MASS FLOW**  
1202 1203 1204  
BT #FLUID FLOW  
RT CROCCO-LEE THEORY  
FLOW  
FLOW THEORY  
GAS FLOW  
#KINETIC THEORY  
LAMINAR FLOW  
LEWIS NUMBERS  
LIQUID FLOW  
MASS FLOW RATE  
MOLECULAR INTERACTIONS  
MULTIPHASE FLOW  
PIPE FLOW  
SINGLE-PHASE FLOW  
SLIDING  
SLUMPING  
SOLIDS FLOW  
STEADY FLOW  
STEAM FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
**MASS FLOW FACTORS**  
1202 1203 1204  
RT DISCHARGE COEFFICIENT  
FLOW COEFFICIENTS  
HEAT TRANSFER COEFFICIENTS  
HEAT TRANSMISSION  
MASS FLOW RATE  
MASS TRANSFER  
**NOZZLE GEOMETRY**  
**MASS FLOW RATE**  
1202 1203 1204 1408  
BT #RATES (PER TIME)  
RT CONVECTIVE FLOW  
DIFFUSION COEFFICIENT  
FLOW VELOCITY  
MASS FLOW  
MASS FLOW FACTORS  
PNEUMATIC PROBES  
SPECIFIC IMPULSE  
TRANSIENT PRESSURES  
**MASS RATIOS**  
3009 3203  
RT PAYLOAD MASS RATIO  
PROPELLANT MASS RATIO  
BT #RATIOS  
RT STRUCTURAL WEIGHT  
THRUST-WEIGHT RATIO  
**MASS SPECTRA**  
0601 1405 1411 2310 2402  
BT #SPECTRA  
RT ENERGY SPECTRA  
MASS SPECTROSCOPY  
MOLECULAR SPECTRA  
RADIATION SPECTRA  
**MASS SPECTROMETERS**  
0601 1405 1411 2310  
BT #MEASURING INSTRUMENTS  
SPECTROMETERS  
RT CHEMICAL ANALYSIS  
GAS ANALYSIS  
MASS SPECTROSCOPY  
MICROANALYSIS  
NEUTRON ACTIVATION ANALYSIS  
QUALITATIVE ANALYSIS  
**MASS SPECTROMETRY**  
USE MASS SPECTROSCOPY  
**MASS SPECTROSCOPY**  
0601 1411 2306 2310  
UF MASS SPECTROMETRY  
BT #SPECTROSCOPY  
RT CHEMICAL ANALYSIS  
GAS SPECTROSCOPY  
MAGNETIC SPECTROSCOPY  
MASS SPECTRA  
MASS SPECTROMETERS  
NUCLEAR RADIATION SPECTROSCOPY  
SPECTROSCOPIC ANALYSIS  
VACUUM SPECTROSCOPY  
**MASS TRANSFER**  
1203 2304 2311 3303 3304  
RT ABLATION  
CHARGE TRANSFER  
CONVECTIVE FLOW  
CONVECTIVE HEAT TRANSFER  
ENERGY TRANSFER  
GAS-LIQUID INTERACTIONS  
GAS TRANSPORT  
HEAT TRANSFER  
LEWIS NUMBERS  
MASS FLOW FACTORS  
POROUS BOUNDARY LAYER CONTROL  
TRANSFERRING  
TRANSPIRATION  
**MASSACHUSETTS**  
1305  
BT UNITED STATES OF AMERICA  
**MASAGING**  
0405 0408  
BT THERAPY  
**MAT SHOCK TUBES**  
USE MAGNETIC ANNULAR SHOCK TUBES  
**MATIFICATION**  
0404  
UF CHEWING  
RT DIGESTING  
EATING  
TEETH  
**MASTOIDS**  
0404 0405  
BT #ANATOMY  
BONES  
EAR  
MUSCULOSKELETAL SYSTEM  
SENSE ORGANS  
**HATCHING**  
0802 0902 1001  
RT ADJUSTING  
COMPARISON  
FITTING  
HOMOLOGY

# MATERIAL ABSORPTION

IMPEDANCE MATCHING  
PATTERN REGISTRATION  
MATERIAL ABSORPTION  
0602 2901  
RT ABSORBENTS  
ABSORBERS (EQUIPMENT)  
ABSORPTION  
ASSIMILATION  
EXTRACTION  
HYGROSCOPICITY  
RADIATION ABSORPTION  
ISORPTION  
WATER TREATMENT  
MATERIAL BALANCE  
0602 3303  
RT WATER BALANCE  
RT BALANCE  
HEAT BALANCE  
MASS BALANCE  
STOICHIOMETRY  
MATERIAL REMOVAL (MACHINING)  
USE #MACHINING  
MATERIALS  
0401 0603 0906 1704 1805 2602  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT SUBSTANCES  
RT ABLATIVE MATERIALS  
ABSORBENTS  
ABSORBERS (MATERIALS)  
AIRFRAME MATERIALS  
ANISOTROPIC MATERIALS  
ANISOTROPIC MEDIA  
BITUMENS  
BRITTLE MATERIALS  
COMPOSITE MATERIALS  
ELECTRONS  
FISSIONABLE MATERIALS  
GLASS  
GRANULAR MATERIALS  
GROUND SUPPORT EQUIPMENT  
HOLES (ELECTRON DEFICIENCIES)  
LOW DENSITY MATERIALS  
MATERIALS HANDLING  
METAL MATRIX COMPOSITES  
MOLDING MATERIALS  
NONFLAMMABLE MATERIALS  
ORGANIC MATERIALS  
PHOTOELASTIC MATERIALS  
PHOTOELECTRIC MATERIALS  
POROUS MATERIALS  
PYROLYTIC MATERIALS  
RADIOACTIVE MATERIALS  
RADONE MATERIALS  
REACTOR MATERIALS  
REFRACTORY MATERIALS  
RESERVES  
RESOURCES  
SELF LUBRICATING MATERIALS  
SEMICONDUCTORS (MATERIALS)  
SOLIDS  
THERMOCHROMATIC MATERIALS  
THERMOELECTRIC MATERIALS  
THREE DIMENSIONAL COMPOSITES  
VITREOUS MATERIALS  
VYCOR  
MATERIALS EROSION  
USE EROSION  
MATERIALS HANDLING  
1502 1404 1103  
RT HANDLING  
RT GROUND HANDLING  
PROPELLANT TRANSFER  
REMOTE HANDLING  
RT AIRFIELD SURFACE MOVEMENTS  
AUTOMATION  
BLOWERS  
CANALS  
#CARGO  
CARGO AIRCRAFT  
CAUTS  
CHEMICAL ENGINEERING  
CHUTES  
CONTAINERS  
CONTINGENCY  
CONVEYORS  
CRANES  
DELIVERY  
DISPENSERS  
DISPOSAL  
DISTRIBUTING

DISTRIBUTION  
DISTRIBUTORS  
DOLLIES  
DUMPING  
EJECTION  
EJECTORS  
EMPTYING  
ENCAPSULATING  
EXCAVATION  
FEEDERS  
FEEDING (SUPPLYING)  
#FLUID FLOW  
FUEL PUMPS  
HAULING  
LOADING OPERATIONS  
LUNAR LOGISTICS  
MARKING  
MATERIALS  
MECHANICAL ENGINEERING  
MINES (EXCAVATIONS)  
MOORING  
PACKAGING  
PIPELINES  
PUMPING  
#PUMPS  
RAILROAD HUMPING TESTS  
RELEASING  
REMOTE HANDLING  
RIGGING  
SERVICES  
SIPHONS  
SPRAYERS  
SPREADING  
STACKS  
STORAGE  
#TANKS (CONTAINERS)  
TRACTORS  
TRANSFERRING  
#TRANSPORTATION  
TRUCKS  
UNLOADING  
VACUUM PUMPS  
WASTE DISPOSAL  
MATERIALS RECOVERY  
0602 3404 3407  
(TREATMENT OF A MATERIAL TO RECLAIM  
ONE OR MORE OF ITS COMPONENTS)  
RT WATER RECLAMATION  
RT #RECLAMATION  
RT ABSORPTION  
BY-PRODUCTS  
CENTRIFUGING  
CRYSTALLIZATION  
DISPOSAL  
DISTILLATION  
EXTRACTION  
FILTRATION  
PRECIPITATION  
PRECIPITATION (CHEMISTRY)  
PROCESSING  
RECOVERY  
REFINING  
REMOVAL  
SEPARATION  
MATERIALS SCIENCE  
0603 1704 2311 2601 2603 3202 3203 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CERAMICS  
#PLASTICS  
MATERIALS TESTING REACTORS  
USE NUCLEAR RESEARCH AND TEST REACTORS  
MATERIALS TESTS  
1505 1704 1805 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERM LISTED  
BELOW)  
RT CHARPY IMPACT TEST  
CHEMICAL ANALYSIS  
COMPRESSION TESTS  
CORROSION TESTS  
DESTRUCTIVE TESTS  
ELECTROPHOTOMETRY  
#ENVIRONMENTAL TESTS  
FATIGUE TESTS  
FUEL TESTS  
GAS ANALYSIS  
HARDNESS TESTS  
HIGH TEMPERATURE TESTS  
IMPACT TESTS  
LUBRICANT TESTS

# MASA THESAURUS (ALPHABETICAL LISTING)

MAGNETIC MEASUREMENT  
#MECHANICAL PROPERTIES  
METALLOGRAPHY  
MICROANALYSIS  
#NONDESTRUCTIVE TESTS  
PROPELLANT TESTS  
QUALITY  
QUALITY CONTROL  
RADIOGRAPHY  
SPECIFICATIONS  
STATIC TESTS  
ULTRASONIC TESTS  
WEAR TESTS  
X RAY ANALYSIS  
X RAY SPECTROSCOPY  
MATHEMATICAL ANALYSIS  
USE APPLICATIONS OF MATHEMATICS  
#MATHEMATICAL LOGIC  
0802 1902  
RT ALGORITHMS  
AXIOMS  
BETHE-HEITLER FORMULA  
BOOLEAN ALGEBRA  
BOOLEAN FUNCTIONS  
BOREL SETS  
EQUIVALENCE  
FORMULAS (MATHEMATICS)  
LATTICES (MATHEMATICS)  
SET THEORY  
THRESHOLD LOGIC  
RT BRANCHING (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
HYPOTHESES  
INDUCTION (MATHEMATICS)  
LOGIC  
PHILOSOPHY  
PROVING  
#THEOREMS  
TURING MACHINES  
VENN DIAGRAMS  
MATHEMATICAL MODELS  
0804 1902  
UP ISING MODEL  
MISSILE SIMULATION (MATH MODELS)  
PROPULSION CALCULATIONS  
RT DIGITAL SIMULATION  
THOMAS-FERMI MODEL  
VENEZIANO MODEL  
RT #MODELS  
RT AIRCRAFT MODELS  
ANALOG SIMULATION  
APPLICATIONS OF MATHEMATICS  
ASTRONOMICAL MODELS  
ATMOSPHERIC MODELS  
COMPUTERIZED SIMULATION  
DECISION THEORY  
DYNAMIC MODELS  
DYNAMIC PROGRAMMING  
EXHAUST FLOW SIMULATION  
EXPERIMENTAL DESIGN  
FACTORIAL DESIGN  
FLOW CHARTS  
#FORECASTING  
#FUNCTIONS (MATHEMATICS)  
GAME THEORY  
INVENTORY CONTROLS  
LINEAR PREDICTION  
LOFTING  
MISSILE SIMULATORS  
MONTE CARLO METHOD  
NUMERICAL WEATHER FORECASTING  
OPERATIONS RESEARCH  
PARAMETERIZATION  
QUEUEING THEORY  
REGRESSION COEFFICIENTS  
RISK  
SCHEDULING  
SIMILARITY THEOREM  
#SIMULATION  
SPACECRAFT MODELS  
STATISTICAL DISTRIBUTIONS  
#STOCHASTIC PROCESSES  
SYSTEMS ANALYSIS  
SYSTEMS ENGINEERING  
TRAJECTORY ANALYSIS  
TWO DIMENSIONAL BODIES  
VALIDITY  
WAR GAMES  
MATHEMATICAL STATISTICS  
USE #STATISTICAL ANALYSIS  
MATHEMATICAL TABLES  
1902 1905

# **WASA THESAURUS (ALPHABETICAL LISTING)**

BT TABLES (DATA)  
 RT NUMERICAL ANALYSIS  
 RANDOM NUMBERS  
**MATHEMATICS**  
 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #ALGEBRA  
 #ANALYSIS (MATHEMATICS)  
 AXIOMS  
 CALCULUS  
 CURRENT ALGEBRA  
 #CUSPS  
 FORMULAS (MATHEMATICS)  
 #FUNCTIONS (MATHEMATICS)  
 #GEOMETRY  
 INEQUALITIES  
 INFORMATION THEORY  
 LATTICES (MATHEMATICS)  
 MORPHOLOGY  
 #NUMBER THEORY  
 NUMERICAL ANALYSIS  
 PRINCIPLES  
 PROBABILITY THEORY  
 RINGS (MATHEMATICS)  
 STARS (MATHEMATICS)  
 #STATISTICAL ANALYSIS  
 SUPERPOSITION (MATHEMATICS)  
 SYMBOLS  
 #THEOREMS  
**MATHIEU EQUATION**  
 USE MATHIEU FUNCTION  
**MATHIEU FUNCTION**  
 1902  
 UP MATHIEU EQUATION  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 #FUNCTIONS (MATHEMATICS)  
 RT BOUNDARY VALUE PROBLEMS  
 DIFFERENTIAL EQUATIONS  
 EIGENVECTORS  
 HILL DETERMINANT  
 ORTHOGONAL FUNCTIONS  
**MATRA MISSILE**  
 3101 3409  
 BT AIR TO AIR MISSILES  
 #MISSILES  
 RT SOLID PROPELLANT ROCKET ENGINES  
**MATRICES**  
 0801 0802 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #COMPOSITE MATERIALS  
 LATTICES (MATHEMATICS)  
 MATRICES (CIRCUITS)  
 MATRICES (MATHEMATICS)  
 METAL MATRIX COMPOSITES  
**MATRICES (CIRCUITS)**  
 0802 0902 1001  
 BT #CIRCUITS  
 RT LOGIC CIRCUITS  
 MATRICES  
 SWITCHING CIRCUITS  
**MATRICES (MATHEMATICS)**  
 1902  
 UP DIFFERENTIAL ALGEBRA  
 MATRIX ALGEBRA  
 MATRIX ANALYSIS  
 NT ADJOINTS  
 CANONICAL FORMS  
 EIGENVALUES  
 EIGENVECTORS  
 JORDAN FORM  
 BT #ALGEBRA  
 VECTOR SPACES  
 RT #ARRAYS  
 CHIRAL DYNAMICS  
 DETERMINANTS  
 ENERGY METHODS  
 FINITE ELEMENT METHOD  
 HERMITIAN POLYNOMIAL  
 ISOPERIMETRIC PROBLEM  
 LINEAR EQUATIONS  
 LINEAR PROGRAMMING  
 LINEAR TRANSFORMATIONS  
 MATRICES  
 ROOTS OF EQUATIONS  
 SIMULTANEOUS EQUATIONS  
 SUBGROUPS  
 U SPIN SPACE

WALSH FUNCTION  
**MATRIX ALGEBRA**  
 USE MATRICES (MATHEMATICS)  
**MATRIX ANALYSIS**  
 USE MATRICES (MATHEMATICS)  
**MATRIX METHODS**  
 0802 1902 3203  
 (LIMITED TO METHODS FOR STRUCTURAL  
 ANALYSIS)  
 UP MATRIX STRESS CALCULATION  
 BT #STRUCTURAL ANALYSIS  
 RT EQUILIBRIUM METHODS  
 METHODOLOGY  
 SPLINE FUNCTIONS  
**MATRIX STRESS CALCULATION**  
 USE MATRIX METHODS  
**MATRIX THEORY**  
 1902  
 RT OPERATORS (MATHEMATICS)  
**MATTER (PHYSICS)**  
 0401 0404 0603 2311 2401 2404 2405  
 RT #ANTIMATTER  
 #EXTRATERRESTRIAL MATTER  
 ROTATING MATTER  
**MATTS (SYSTEMS)**  
 0709  
 UP MULTIPLE TARGET TRAJECTORY SYSTEMS  
 BT TRACKING NETWORKS  
 RT ABORT TRAJECTORIES  
 AIRBORNE EQUIPMENT  
 ANGULAR CORRELATION  
 TARGET ACQUISITION  
**MATURING**  
 USE #GROWTH  
**MAULER MISSILE**  
 3101 3401  
 BT ANTI-AIRCRAFT MISSILES  
 ANTI-MISSILE MISSILES  
 #MISSILES  
 SURFACE TO AIR MISSILES  
 RT SINGLE STAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
**MAVERICK MISSILES**  
 3101 3106 3401  
 BT AIR TO SURFACE MISSILES  
 #MISSILES  
**MAI HOLSTE MH-260 AIRCRAFT**  
 USE MH-260 AIRCRAFT  
**MAI HOLSTE MH-262 AIRCRAFT**  
 USE MH-262 AIRCRAFT  
**MAINA**  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 EXTREMUM VALUES  
 REAL VARIABLES  
 RT APEXES  
 CALCULUS OF VARIATIONS  
 CUSPS (MATHEMATICS)  
 MINIMA  
 #OPTIMIZATION  
 PEAKS  
 #RANGE (EXTREMES)  
 ZENITH  
**MAXIMUM LIKELIHOOD ESTIMATES**  
 1902 3406  
 RT CONFIDENCE LIMITS  
 #FORECASTING  
 #PREDICTIONS  
 RELIABILITY  
 RISK  
**MAXIMUM PRINCIPLE**  
 0802 1902  
 RT COMPLEX VARIABLES  
 DIFFERENTIAL EQUATIONS  
 ELLIPTIC DIFFERENTIAL EQUATIONS  
 HARMONIC FUNCTIONS  
 PONTRYAGIN PRINCIPLE  
 REAL VARIABLES  
**MAXIMUM USABLE FREQUENCY**  
 0702 0705 0710  
 BT #FREQUENCIES  
 RT FREQUENCY ASSIGNMENT  
 HIGH FREQUENCIES  
 VERY HIGH FREQUENCIES  
**MAXWELL BODIES**  
 1202 1203 2308  
 RT #CLASSICAL MECHANICS  
 CONTINUUM MECHANICS  
 HOOKE'S LAW  
 OSCILLATION DAMPERS  
 RELAXATION TIME

## **MCR REACTORS**

**MAXWELL-BOLTZMANN DENSITY FUNCTION**  
 1202 1902  
 UP MAXWELLIAN DISTRIBUTION (DENSITY)  
 BT #FUNCTIONS (MATHEMATICS)  
 #STATISTICAL ANALYSIS  
 RT DENSITY DISTRIBUTION  
 #KINETIC THEORY  
 PROBABILITY THEORY  
 STATISTICAL MECHANICS  
**MAXWELL EQUATION**  
 1203 1902 2402 2502  
 RT BOLTZMANN-VLASOV EQUATION  
 BORN-INFELD THEORY  
 #ELECTRICITY  
 ELECTRODYNAMICS  
 ELECTROMECHANICS  
 EQUATIONS  
 GAUSS EQUATION  
 MAGNETIC CHARGE DENSITY  
 #MAGNETIC PROPERTIES  
 MAGNETOELECTRIC MEDIA  
 POINTEING THEOREM  
 STOKES LAW  
**MAXWELL FLUIDS**  
 1202 2502  
 RT COMPRESSIBLE FLUIDS  
 #FLUID MECHANICS  
 FLUIDS  
 RHEOLOGY  
 VISCOELASTICITY  
 VISCOUS FLOW  
 VISCOUS FLUIDS  
**MAXWELL-BORN METHOD**  
 2307 3203  
 RT DEFLECTION  
 EQUILIBRIUM  
 METHODOLOGY  
 STATIC DEFORMATION  
 TRUSSES  
**MAXWELLIAN DISTRIBUTION (DENSITY)**  
 USE MAXWELL-BOLTZMANN DENSITY FUNCTION  
**MAYER PROBLEM**  
 1203 2404 3304  
 RT CONDENSATION  
 CRITICAL POINT  
 GIBBS FREE ENERGY  
 MOLECULAR PHYSICS  
 PROBLEMS  
 SUPERSATURATION  
**MAZE LEARNING**  
 0410 0502 1902  
 BT #LEARNING  
 RT PROBLEM SOLVING  
**MB-1 ROCKET VEHICLE**  
 USE GENIE ROCKET VEHICLE  
**MCDONNELL AIRCRAFT**  
 0207  
 UP MCDONNELL MILITARY AIRCRAFT  
 NT C-9 AIRCRAFT  
 DC 10 AIRCRAFT  
 F-4 AIRCRAFT  
 F-101 AIRCRAFT  
 BT #MCDONNELL DOUGLAS AIRCRAFT  
 RT AIRCRAFT  
**#MCDONNELL DOUGLAS AIRCRAFT**  
 0204 0207  
 NT DOUGLAS AIRCRAFT  
 MCDONNELL AIRCRAFT  
**MCDONNELL MILITARY AIRCRAFT**  
 USE MCDONNELL AIRCRAFT  
 MILITARY AIRCRAFT  
**MCLAURIN SERIES**  
 USE MACLAURIN SERIES  
**MCLEOD GAGES**  
 1203 1408 1506  
 BT #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 #VACUUM APPARATUS  
 VACUUM GAGES  
 RT IONIZATION GAGES  
 KNUDSEN GAGES  
 PIRANI GAGES  
 PRESSURE MEASUREMENTS  
**MCHURDO SOUND**  
 1305  
 BT ANTARCTIC REGIONS  
 POLAR REGIONS  
 #REGIONS  
 #SOUTHERN HEMISPHERE  
 RT ROSS ICE SHELF  
**MCR REACTORS**  
 USE MILITARY COMPACT REACTORS

## NDA

NDA  
 USE MULTIPLE DOCKING ADAPTERS  
 ME P-160 AIRCRAFT  
 USE P-160 AIRCRAFT  
 ME P-308 AIRCRAFT  
 USE P-308 AIRCRAFT  
 MEAN  
 1902  
 BT AVERAGE  
 DISTRIBUTION MOMENTS  
 #MOMENTS  
 RT MEDIAN (STATISTICS)  
 MODE (STATISTICS)  
 QUALITY CONTROL  
 #RANGE (EXTREMES)  
 #STATISTICAL ANALYSIS  
 VARIANCE (STATISTICS)  
 MEAN FREE PATH  
 2301 2402 2403  
 RT COLLISION PARAMETERS  
 CROSS SECTIONS  
 KNUDSEN FLOW  
 PARTICLE COLLISIONS  
 PARTICLE MOTION  
 PATHS  
 #SCATTERING  
 VACUUM  
 MEAN TIME BETWEEN FAILURES  
 USE MTBF  
 MEASURANDS  
 USE MEASUREMENT  
 PROPERTIES  
 MEASURE AND INTEGRATION  
 1902  
 UP INTEGRATION (REAL VARIABLES)  
 MEASURE THEORY  
 RIEMANN INTEGRAL  
 NT BINARY INTEGRATION  
 BOREL SETS  
 FUNCTIONAL INTEGRATION  
 INTEGRAL CALCULUS  
 LEBESGUE THEOREM  
 NUMERICAL INTEGRATION  
 RUNGE-KUTTA METHOD  
 STIELTJES INTEGRAL  
 WEIGHTING FUNCTIONS  
 BT #ANALYSIS (MATHEMATICS)  
 REAL VARIABLES  
 RT FOURIER ANALYSIS  
 MEASURE THEORY  
 USE MEASURE AND INTEGRATION  
 MEASUREMENT  
 1406 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP DETERMINATION  
 MEASURANDS  
 MEASURING  
 QUANTIZATION  
 RIOMETRY  
 RT ACCURACY  
 ACOUSTIC MEASUREMENTS  
 AIRBORNE RANGE AND ORBIT  
 DETERMINATION  
 #AIRCRAFT INSTRUMENTS  
 ANALOG DATA  
 ASTROMETRY  
 AUDIOMETRY  
 CHEMICAL ANALYSIS  
 CONFIDENCE LIMITS  
 CONSISTENCY  
 COUNTING  
 DENSITY MEASUREMENT  
 DEPTH MEASUREMENT  
 #DETECTION  
 DILATOMETRY  
 DIMENSIONAL MEASUREMENT  
 DOWNRANGE ANTIMISSILE MEASUREMENT  
 PROGRAM  
 DOWNRANGE MEASUREMENT  
 DRAG MEASUREMENT  
 ELECTRICAL MEASUREMENT  
 ELECTROMAGNETIC MEASUREMENT  
 ESTIMATING  
 EVALUATION  
 EXAMINATION  
 FLOW MEASUREMENT  
 FREQUENCY MEASUREMENT  
 FRICTION MEASUREMENT  
 #GEOMETRY  
 GRAVIMETRY

HEAT MEASUREMENT  
 HIGH ALT TARGET AND BACKGROUND  
 MEASUREMENT  
 HUMIDITY MEASUREMENT  
 IDENTIFYING  
 INTERNATIONAL SYSTEM OF UNITS  
 LATITUDE MEASUREMENT  
 LONGITUDE MEASUREMENT  
 MACROSCOPIC EQUATIONS  
 MAGNETIC MEASUREMENT  
 #MEASURING INSTRUMENTS  
 #MECHANICAL MEASUREMENT  
 METROLOGY  
 MONITORS  
 #OPTICAL MEASUREMENT  
 OPTOMETRY  
 PHOTOGRAPHIC MEASUREMENT  
 PNEUMOGRAPHY  
 PRESSURE MEASUREMENTS  
 PROVING  
 PUPILLOMETRY  
 RADAR MEASUREMENT  
 RADIATION MEASUREMENT  
 RADIOACTIVE AGE DETERMINATION  
 RANGEFINDING  
 SIGNAL MEASUREMENT  
 SIZE DETERMINATION  
 SOUNDING  
 SPHYGMOGRAPHY  
 STANDARDS  
 SYNOPTIC MEASUREMENT  
 TEMPERATURE MEASUREMENT  
 THRUST MEASUREMENT  
 TIME MEASUREMENT  
 TRAJECTORY MEASUREMENT  
 UNITS OF MEASUREMENT  
 VELOCITY MEASUREMENT  
 VIBRATION MEASUREMENT  
 WEIGHT MEASUREMENT  
 WIND MEASUREMENT  
 MEASURES  
 1406 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 BT CRITERIA  
 STANDARDS  
 MEASURING  
 USE MEASUREMENT  
 MEASURING APPARATUS  
 USE #MEASURING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 0501 1406  
 UP FLUXMETERS  
 GAGES  
 MEASURING APPARATUS  
 METERS  
 RATE METERS  
 NT ACCELEROMETERS  
 ACTINOMETERS  
 ALPHATRONS  
 ALTIMETERS  
 ANNETERS  
 ANALYZERS  
 ANEMOMETERS  
 APPROACH INDICATORS  
 ATOMIC CLOCKS  
 ATTITUDE INDICATORS  
 BAROMETERS  
 BATHYMETERS  
 BATHYTHERMOGRAPHS  
 BAYARD-ALPERT IONIZATION GAGES  
 BOLOMETERS  
 BOMB CALORIMETERS  
 CALORIMETERS  
 CAPACITIVE FUEL GAGES  
 CATHETERMETERS  
 CERENKOV COUNTERS  
 CHRONOMETERS  
 CINETHOOLITES  
 CLOCKS  
 CLOUD HEIGHT INDICATORS  
 COMPARATORS  
 COMPASSES  
 CONDUCTIVITY METERS  
 COULOMETERS  
 COUNTERS  
 DEFORMETERS  
 DENSITOMETERS  
 DICKE RADIOHETERS  
 DIFFRACTOMETERS  
 DISTANCE MEASURING EQUIPMENT

## NASA THESAURUS (ALPHABETICAL LISTING)

DOSIMETERS  
 DROP CALORIMETERS  
 DROPSONDES  
 DYNAMOMETERS  
 EBERT SPECTROMETERS  
 ELASTOMETERS  
 ELECTRICAL CONDUCTIVITY METERS  
 ELECTROMETERS  
 ELECTRON COUNTERS  
 ELECTRON PROBES  
 ELECTROPHOTOMETERS  
 ELECTROSTATIC PROBES  
 ELLIPSOMETERS  
 ENDORADIOSONDES  
 ENGINE ANALYZERS  
 ENGINE MONITORING INSTRUMENTS  
 ERGOMETERS  
 EUDIOMETERS  
 EXTENSOMETERS  
 FABRY-PEROT INTERFEROMETERS  
 FABRY-PEROT SPECTROMETERS  
 FIELD INTENSITY METERS  
 FLAME CALORIMETERS  
 FLAME PROBES  
 FLIGHT LOAD RECORDERS  
 FLIGHT RECORDERS  
 FLOW DIRECTION INDICATORS  
 FLOWMETERS  
 FUEL GAGES  
 GALVANOMETERS  
 GAS METERS  
 GEIGER COUNTERS  
 GEODIMETERS  
 GERDIEN CONDENSERS  
 GOLAY DETECTOR CELLS  
 GONIOMETERS  
 GRAVIMETERS  
 GRAVITY GRADIOMETERS  
 GYRO HORIZONS  
 GYROCOMPASSES  
 HELIOMETERS  
 HODOSCOPES  
 HOT-FILM ANEMOMETERS  
 HOT-WIRE ANEMOMETERS  
 HOT-WIRE FLOWMETERS  
 HYDROMETERS  
 HYGROMETERS  
 HYPSONETERS  
 IMPEDANCE PROBES  
 INDICATING INSTRUMENTS  
 INFRARED DETECTORS  
 INFRARED INSTRUMENTS  
 INFRARED SCANNERS  
 INFRARED SPECTROMETERS  
 INFRARED SPECTROPHOTOMETERS  
 INTERFEROMETERS  
 ION PROBES  
 ION TRAPS (INSTRUMENTATION)  
 IONIZATION GAGES  
 IONOSONDES  
 ISOTENISCOPES  
 KNUDSEN GAGES  
 LASER ALTIMETERS  
 LASER RANGE FINDERS  
 LIGHT SCATTERING METERS  
 LUNAR SEISMOGRAPHS  
 MACH-ZEHNDER INTERFEROMETERS  
 MAGNETIC PROBES  
 MAGNETOMETERS  
 NANOMETERS  
 MASS SPECTROMETERS  
 MCLEOD GAGES  
 MECHANOGRAMS  
 METEOROLOGICAL INSTRUMENTS  
 NICHOLSON INTERFEROMETERS  
 MICROBALANCES  
 MICRODENSITOMETERS  
 MICROMETERS  
 MICROMILLIAMMETERS  
 MICROWAVE INTERFEROMETERS  
 MICROWAVE PLASMA PROBES  
 MICROWAVE PROBES  
 MICROWAVE RADIONETERS  
 MICROWAVE REFLECTOMETERS  
 MICROWAVE SENSORS  
 MILLIVOLTMETERS  
 MOISTURE METERS  
 MONOCHEMOMETERS  
 NEPHELOMETERS  
 NEUTRON COUNTERS  
 NEUTRON SPECTROMETERS  
 NOISE METERS



# NASA THESAURUS (ALPHABETICAL LISTING)

OCULOMETERS  
OHMMETERS  
OMEGA NAVIGATION SYSTEM  
OPTICAL MEASURING INSTRUMENTS  
OPTICAL PYROMETERS  
OPTICAL RANGE FINDERS  
OPTICAL SCANNERS  
OSCILLOGRAPHS  
OSMOMETERS  
OXYGEN ANALYZERS  
PARTICLE TELESCOPES  
PENETROMETERS  
PENNING GAGES  
PHASE SWITCHING INTERFEROMETERS  
PHILLIPS IONIZATION GAGES  
PHOTOGONIOMETERS  
PHOTOMETERS  
PIEZOELECTRIC GAGES  
PIEZOMETERS  
PIRANI GAGES  
PLAN POSITION INDICATORS  
PLASMA PROBES  
PNEUMATIC PROBES  
POLARIMETERS  
POLARISCOPES  
POSITION INDICATORS  
POTENTIOMETERS (INSTRUMENTS)  
PRESSURE GAGES  
PROFILOMETERS  
PROPORTIONAL COUNTERS  
PROTRACTORS  
PSYCHROMETERS  
PYRANOMETERS  
PYROHELIOMETERS  
PYROMETERS  
QUANTUM COUNTERS  
RADIATION COUNTERS  
RADIATION DETECTORS  
RADIATION MEASURING INSTRUMENTS  
RADIATION PYROMETERS  
RADIO ALTIMETERS  
RADIO DIRECTION FINDERS  
RADIO FREQUENCY IMPEDANCE PROBES  
RADIO INTERFEROMETERS  
RADIOGONIOMETERS  
RADIOMETEOROLOGRAPH  
RADIOMETERS  
RADIOSONDES  
RAIN GAGES  
RANGE FINDERS  
RATIMETERS  
RAWINSONDES  
REFLECTOMETERS  
REFRACTOMETERS  
RESISTANCE THERMOMETERS  
RESONANCE PROBES  
RESPIROMETERS  
RHEOMETERS  
RIONETERS  
SCATTEROMETERS  
SCINTILLATION COUNTERS  
SEISMOGRAPHS  
SENAHONT POLARISCOPES  
SEXTANTS  
SHOCK MEASURING INSTRUMENTS  
SIGNAL ANALYZERS  
SILICON RADIATION DETECTORS  
SOLAR SPECTROMETERS  
SONDES  
SONIC ANEMOMETERS  
SPACECRAFT POSITION INDICATORS  
SPARK CHAMBERS  
SPECTROMETERS  
SPECTROPHOTOMETERS  
SPECTRORADIOMETERS  
SPEED INDICATORS  
SPUTTERING GAGES  
STADIMETERS  
STRAIN GAGE ACCELEROMETERS  
STRAIN GAGE BALANCES  
STRAIN GAGES  
TACHOMETERS  
TELLUROMETERS  
TEMPERATURE MEASURING INSTRUMENTS  
TEMPERATURE PROBES  
TENSIONMETERS  
TENSOMETERS  
THEODOLITES  
THERMAL CONDUCTIVITY GAGES  
THERMOBALANCES  
THERMOCOUPLE PYROMETERS  
THERMOELEMENT AMMETERS

THERMOMETERS  
THRESHOLD DETECTORS (DOSIMETERS)  
TIME MEASURING INSTRUMENTS  
TIMING DEVICES  
TITRIMETERS  
TORQUEMETERS  
TRANSITS  
TRANSMISSIONMETERS  
TURBULENCE METERS  
ULTRAVIOLET SPECTROMETERS  
ULTRAVIOLET SPECTROPHOTOMETERS  
VACUUM GAGES  
VARIOMETERS  
VIBRATION METERS  
VISCOMETERS  
VOLTMETERS  
WATTMETERS  
WEATHER DATA RECORDERS  
WEIGHT INDICATORS  
WIND VANES  
RT #AIRCRAFT INSTRUMENTS  
#AUTOMATIC CONTROL  
AUTOMATIC TEST EQUIPMENT  
BIOINSTRUMENTATION  
CALIBRATING  
CONTROL MOMENT GYROSCOPES  
#CONTROLLERS  
DETECTORS  
DRAG MEASUREMENT  
DUOCHROMATORS  
ELECTRIC BRIDGES  
ELECTRICAL MEASUREMENT  
#FLIGHT INSTRUMENTS  
FOREST FIRE DETECTION  
FRAUNHOFER LINE DISCRIMINATORS  
INSTRUMENT RECEIVERS  
INSTRUMENT TRANSMITTERS  
INSTRUMENTS  
INTERNATIONAL SYSTEM OF UNITS  
LABORATORY EQUIPMENT  
LANDING INSTRUMENTS  
LARGE APERTURE SEISMIC ARRAY  
LOCAL SCIENTIFIC SURVEY MODULE  
MEASUREMENT  
METEOROLOGICAL INSTRUMENTS  
METEOROLOGY  
MICROINSTRUMENTATION  
MONITORS  
NAVIGATION INSTRUMENTS  
PROBES  
PROPELLANT ACTUATED INSTRUMENTS  
RADIO TELEMETRY  
#RECORDING INSTRUMENTS  
REMOTE SENSORS  
ROCKET-BORNE INSTRUMENTS  
SATELLITE INSTRUMENTS  
SENSORS  
#SPACECRAFT INSTRUMENTS  
SYNCHROSCOPES  
TELEMETRY  
TEST EQUIPMENT  
#TRANSDUCERS  
VENTURI TUBES  
WHEATSTONE BRIDGES  
WIND TUNNEL CALIBRATION  
MECANYLAMINE  
1808  
BT #AMINES  
TERPENES  
MECHANICAL DEVICES  
0802 1402 1406 1501 1502 1504  
RT CANS  
CLAMPS  
CLIPS  
CLUTCHES  
DEVICES  
EQUIPMENT  
HOLDERS  
JIGS  
LEVERS  
LINKAGES  
MACHINE TOOLS  
#MECHANICAL DRIVES  
MECHANISMS  
MECHANIZATION  
#TOOLS  
MECHANICAL DRAWINGS  
USE ENGINEERING DRAWINGS  
#MECHANICAL DRIVES  
1504  
UP ROTARY DRIVES  
NT HELICOPTER PROPELLER DRIVE

## #MECHANICAL PROPERTIES

PROPELLER DRIVE  
CLUTCHES  
COUPLING  
COUPLINGS  
DRIVES  
GEAR  
GEARS  
MAGNETOELECTRIC MEDIA  
MECHANICAL DEVICES  
MECHANICAL ENGINEERING  
POWER TRANSMISSION  
SHAFTS (MACHINE ELEMENTS)  
VEHICLE WHEELS  
WIND TUNNEL DRIVES  
MECHANICAL ENGINEERING  
2308 3203 3404  
RT AERONAUTICAL ENGINEERING  
AEROSPACE ENGINEERING  
ENGINEERING  
#FLUID FLOW  
FLYWHEELS  
FURNACES  
HEAT TRANSFER  
MACHINE TOOLS  
MACHINERY  
MAINTENANCE  
MATERIALS HANDLING  
#MECHANICAL DRIVES  
STRESS ANALYSIS  
THERMODYNAMICS  
#VIBRATION TESTS  
MECHANICAL IMPEDANCE  
2308 3203  
BT #IMPEDANCE  
RT #ATTENUATION  
DAMPING  
#FRICTION  
IMPEDANCE MEASUREMENTS  
#MECHANICAL PROPERTIES  
#MECHANICAL MEASUREMENT  
1406 3404 3408  
(MEASUREMENT OF MECHANICAL PROPERTIES  
QUANTITIES, OR CONDITIONS)  
NT DISPLACEMENT MEASUREMENT  
DRAG MEASUREMENT  
FLOW MEASUREMENT  
FRICTION MEASUREMENT  
PRESSURE MEASUREMENTS  
STRESS MEASUREMENT  
THRUST MEASUREMENT  
VELOCITY MEASUREMENT  
VIBRATION MEASUREMENT  
WIND MEASUREMENT  
WIND VELOCITY MEASUREMENT  
X RAY STRESS MEASUREMENT  
ACCELEROMETERS  
ACOUSTIC MEASUREMENTS  
DEFORMETERS  
DENSITY MEASUREMENT  
DEPTH MEASUREMENT  
DYNAMOMETERS  
EXTENSOMETERS  
FLOWMETERS  
MEASUREMENT  
#MECHANICAL PROPERTIES  
STRAIN GAGES  
TENSIONMETERS  
TORQUEMETERS  
WEIGHT INDICATORS  
MECHANICAL OSCILLATORS  
1504 2308 3203  
NT GYROSCOPIC PENDULUMS  
PENDULUMS  
BT #OSCILLATORS  
RT ELECTRIC CHOPPERS  
HARMONIC OSCILLATORS  
RECIPROCATION  
RESONANT VIBRATION  
#VIBRATION  
#MECHANICAL PROPERTIES  
1704 2308 3408  
UP METEORITE COMPRESSION TESTS  
STRENGTH OF MATERIALS  
ABRASION RESISTANCE  
AEROELASTICITY  
AEROTHERMOELASTICITY  
ANELASTICITY  
BRITTLENESS  
BULK MODULUS  
COLD STRENGTH  
COMPRESSIBILITY  
COMPRESSIVE STRENGTH

# MECHANICAL RESONANCE

# NASA THESAURUS (ALPHABETICAL LISTING)

<p>           CREEP PROPERTIES            CREEP RUPTURE STRENGTH            CREEP STRENGTH            DIMENSIONAL STABILITY            DUCTILITY            DYNAMIC MODULUS OF ELASTICITY            ELASTIC PROPERTIES            ELASTOPLASTICITY            ELECTROSTRICTION            FATIGUE LIFE            FIBER STRENGTH            FLEXIBILITY            FRACTURE STRENGTH            HARDNESS            HIGH STRENGTH            HYDROELASTICITY            HYPOELASTICITY            IMPACT STRENGTH            KNOOP HARDNESS            MAGNETOSTRICTION            MALLEABILITY            MICROHARDNESS            MODULAR RATIOS            MODULUS OF ELASTICITY            NOTCH SENSITIVITY            NOTCH STRENGTH            PHOTOELASTICITY            PHOTOPLASTICITY            PHOTOVISCOELASTICITY            PIEZOELECTRICITY            PLASTIC PROPERTIES            POISSON RATIO            PROPORTIONAL LIMIT            RESILIENCE            ROCKWELL HARDNESS            SET            SHEAR CREEP            SHEAR PROPERTIES            SHEAR STRENGTH            SHELL STABILITY            STEADY STATE CREEP            STIFFNESS            STRESS CYCLES            STRESS RATIO            STRESS RELAXATION            STRUCTURAL STABILITY            TENSILE CREEP            TENSILE PROPERTIES            TENSILE STRENGTH            THERMAL RESISTANCE            THERMOELASTICITY            THERMOPLASTICITY            THERMOVISCOELASTICITY            TOUGHNESS            VISCOELASTICITY            VISCOPLASTICITY            WELD STRENGTH            YIELD POINT            YIELD STRENGTH         </p>	<p>           RUGGEDNESS            SHEAR STRAIN            SHEAR STRESS            SHOCK RESISTANCE            SPECIFICATIONS            STRAIN RATE            STRENGTH            STRESS CONCENTRATION            #STRESSES            STRUCTURAL FAILURE            SUPERCOOLING            SURFACE DEFECTS            #SURFACE PROPERTIES            SURFACE ROUGHNESS            TEARING            TEMPERATURE INVERSIONS            TEXTURES            TOLERANCES (MECHANICS)            TRIAXIAL STRESSES            WEATHERING         </p>	<p>           MECHANORECEPTORS            0408            BT #ANATOMY            SENSE ORGANS            MECLIZINE            1808            BT AZINES            CHLORINE COMPOUNDS            #HALOGEN COMPOUNDS            #HETEROCYCLIC COMPOUNDS            #PYRAZINES         </p>
<p>           RT #ACOUSTIC PROPERTIES            AGING (MATERIALS)            #ANISOTROPY            BUOYANCY            #COEFFICIENTS            COMPRESSING            COMPRESSION LOADS            #DEFORMATION            DURABILITY            ELONGATION            FATIGUE (MATERIALS)            FLATNESS            HIGH RESISTANCE            HYSTERESIS            #IMPEDANCE            INTERFACIAL TENSION            INTERNAL FRICTION            ISOTROPY            LOW RESISTANCE            MATERIALS TESTS            MECHANICAL IMPEDANCE            #MECHANICAL MEASUREMENT            METALLURGY            MICROPOROSITY            PEELING            PERMEABILITY            PHYSICAL PROPERTIES            PROPELLANT PROPERTIES            PROPERTIES            RADIATION EFFECTS            RELIABILITY            RIGIDITY            ROUGHNESS         </p>	<p>           MECHANICAL RESONANCE            USE RESONANT VIBRATION            MECHANICAL SHOCK            1704 3203            UP JARRING            NT HYDRAULIC SHOCK            RT ACCELERATION (PHYSICS)            HIGH ACCELERATION            HYPERVELOCITY IMPACT            IMPACT            IMPACT ACCELERATION            SHOCK            SHOCK ABSORBERS            SHOCK RESISTANCE            SHOCK SPECTRA            SHOCK WAVES            #VIBRATION            MECHANICAL TWINNING            1704 2308 2601 3203            BT TWINNING            RT CRYSTAL DEFECTS            CRYSTAL GROWTH            CRYSTAL STRUCTURE            WORK HARDENING            MECHANICS (PHYSICS)            2308            (USE OF A MORE SPECIFIC TERM IS            RECOMMENDED--CONSULT THE TERMS LISTED            BELOW)            RT CELESTIAL MECHANICS            #CLASSICAL MECHANICS            CONTINUUM MECHANICS            ELECTROMECHANICS            FLIGHT MECHANICS            FLUID DYNAMICS            #FLUID MECHANICS            FRACTURE MECHANICS            GAS DYNAMICS            HYDRODYNAMICS            KINEMATICS            KINETICS            #LOADS (FORCES)            ORBITAL MECHANICS            QUANTUM MECHANICS            #STATICS            STATISTICAL MECHANICS            VIRIAL THEOREM            WIGNER COEFFICIENT            MECHANISM            1504 3404            (USE OF A MORE SPECIFIC TERM IS            RECOMMENDED--CONSULT THE TERMS LISTED            BELOW)            MECHANIZATION            0802 1504 3404            BT AUTOMATION            #DATA PROCESSING            DEPERSONALIZATION            MACHINERY            MAN MACHINE SYSTEMS            MECHANICAL DEVICES            OPERATIONS            SYSTEMS ENGINEERING            TOOLING            #TOOLS            MECHANOGRAMS            0501 1406 2308            BT #MEASURING INSTRUMENTS            #MEDICAL EQUIPMENT            #RECORDING INSTRUMENTS            RT MUSCULAR FUNCTION         </p>	<p>           #MEDIA            2901 2902 2903 3005 3007            (EXCLUDES COMMUNICATION TECHNIQUES)            NT ANISOTROPIC FLUIDS            ANISOTROPIC MEDIA            ELASTIC MEDIA            INTERGALACTIC MEDIA            INTERPLANETARY DUST            INTERPLANETARY GAS            INTERPLANETARY MEDIUM            METEOROID DUST CLOUDS            ZODIACAL DUST            RT CHANNELS            MEDIAN (STATISTICS)            1902 1905            RT AVERAGE            DISTRIBUTION MOMENTS            ERRORS            MEAN            MODE (STATISTICS)            NORMS            QUALITY CONTROL            #STATISTICAL ANALYSIS            TESTS            MEDIASTINUM            0404 0405            RT SEPTUM            MEDIATION            3402 3403 3406            RT LABOR            MANAGEMENT PLANNING            MEDICAL ELECTRONICS            0405 0501 1002            RT ELECTROCARDIOGRAPHY            ELECTROENCEPHALOGRAPHY            ELECTROMYOGRAPHY            ELECTRONICS            ELECTROPLETHYSMOGRAPHY            ELECTRORETINOGRAPHY            #MEDICAL SCIENCE            #MEDICAL EQUIPMENT            0405 0501            RT ARTIFICIAL EARS            ARTIFICIAL HEART VALVES            CARDIOTACHOMETERS            ENDOSCOPES            MECHANOGRAMS            PROSTHETIC DEVICES            RESPIRATORS            STETHOSCOPES            STRETCHERS            SURGICAL INSTRUMENTS            SYRINGES            TOURNIQUETS            RT RADIOGRAPHY            DENTISTRY            DIAGNOSIS            ELECTROENCEPHALOGRAPHY            EMERGENCY LIFE SUSTAINING SYSTEMS            EQUIPMENT            FIRST AID            FLUOROSCOPY            HOSPITALS            #MEDICAL SCIENCE            MEDICINE            MICROTONY            MOBILE QUARANTINE FACILITY            THERAPY            MEDICAL PERSONNEL            0405 0502 3404            NT FLIGHT SURGEONS            PHYSICIANS            SURGEONS            BT #PERSONNEL            RT #MEDICAL SCIENCE            MEDICINE            MEDICAL PHENOMENA            0401 0405            NT PHENOMENOLOGY            RT DIVING (UNDERWATER)            #MEDICAL SCIENCE         </p>

# NASA THESAURUS (ALPHABETICAL LISTING)

#MEDICAL SCIENCE  
0401 0405  
NT ANESTHESIOLOGY  
DENTISTRY  
DERMATOLOGY  
ENDOCRINOLOGY  
EPIDEMIOLOGY  
GERIATRICS  
GYNECOLOGY  
HISTOLOGY  
IMMUNOLOGY  
NEUROLOGY  
NEUROPSYCHIATRY  
ORTHOPEDICS  
OTOLARYNGOLOGY  
OTOLOGY  
PATHOLOGY  
PHENOMENOLOGY  
PSYCHIATRY  
RADIATION MEDICINE  
RADIOBIOLOGY  
RADIOLOGY  
RADIOPATHOLOGY  
SOCIAL PSYCHIATRY  
SYMPTOMOLOGY  
TOOTH DISEASES  
UROLOGY  
RT AEROSPACE MEDICINE  
BIOLOGY  
CLINICAL MEDICINE  
DIAGNOSIS  
#DISEASES  
FIRST AID  
MEDICAL ELECTRONICS  
#MEDICAL EQUIPMENT  
MEDICAL PERSONNEL  
MEDICAL PHENOMENA  
MEDICINE  
OPTOMETRY  
PHARMACOLOGY  
PNEUMOTHORAX  
RADIATION THERAPY  
SCIENCE  
MEDICAL SERVICES  
0405 1101  
RT AMBULANCES  
C-9 AIRCRAFT  
FIRST AID  
MOBILE QUARANTINE FACILITY  
MEDICINE  
0401 0405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AEROSPACE MEDICINE  
CLINICAL MEDICINE  
#MEDICAL EQUIPMENT  
MEDICAL PERSONNEL  
#MEDICAL SCIENCE  
NEUROPSYCHIATRY  
PHARMACOLOGY  
RADIOBIOLOGY  
RADIOLOGY  
MEDITERRANEAN SEA  
1305  
BT SEAS  
RT MALTA  
MEDIUM SCALE INTEGRATION  
0902 1001 1002  
BT #CIRCUITS  
MICROELECTRONICS  
MOLECULAR ELECTRONICS  
PRINTED CIRCUITS  
RT ELECTRONIC PACKAGING  
INTEGRATED CIRCUITS  
LARGE SCALE INTEGRATION  
MEETINGS  
USE CONFERENCES  
MEISSNER EFFECT  
USE DIAMAGNETISM  
SUPERCONDUCTIVITY  
MELAMINE  
1808  
BT #AMINES  
RT #RESINS  
MELANIN  
0403 1808  
BT PIGMENTS  
#PROTEINS  
RT SKIN (ANATOMY)  
MELANOIDIN  
0403 1808

BT #ACIDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
MELLIN TRANSFORMS  
1902  
BT #FUNCTIONS (MATHEMATICS)  
RT INTEGRAL EQUATIONS  
KERNEL FUNCTIONS  
MELTING  
0603 1504 1704  
UF REMELTING  
THAWING  
RT ARC MELTING  
FUSION (MELTING)  
VACUUM MELTING  
BT #PHASE TRANSFORMATIONS  
RT ABLATION  
BURNTHROUGH (FAILURE)  
CASTING  
CONTAINERLESS-MELTS  
#COOLING  
DEPROSTING  
DECING  
EXTRACTION  
FREEZING  
FURNACES  
#HEATING  
ICE PREVENTION  
INDUCTION HEATING  
LIQUEFACTION  
LIQUID METALS  
LIQUID-SOLID INTERFACES  
METAL CUTTING  
METALLURGY  
MOLDS  
SEPARATION  
SHEATING  
SOLAR FURNACES  
SPIKING  
ZONE MELTING  
MELTING POINTS  
0603 2603 3304  
UF FREEZING POINTS  
BT #THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
RT HIGH TEMPERATURE TESTS  
LIQUID PHASES  
LIQUIDUS  
LOW TEMPERATURE TESTS  
PHASE DIAGRAMS  
SOLID SOLUTIONS  
SOLID STATE  
SOLIDIFICATION  
SOLIDIFIED GASES  
SPECIFIC HEAT  
#TEMPERATURE  
TRANSITION TEMPERATURE  
MEM (EXCURSION MODULE)  
USE HARS EXCURSION MODULE  
MEMBRANE ANALOGY  
USE MEMBRANE STRUCTURES  
#STRUCTURAL ANALYSIS  
MEMBRANE STRUCTURES  
0101 0102 0406 3203  
UF MEMBRANE ANALOGY  
MEMBRANE THEORY  
RT SKIN (STRUCTURAL MEMBER)  
BT #MEMBRANES  
#STRUCTURAL MEMBERS  
RT DIAPHRAGMS (MECHANICS)  
METAL SHELLS  
PERFORATED SHELLS  
SCOTCHLITE (TRADEMARK)  
SHEETS  
#SHELLS (STRUCTURAL FORMS)  
STRUCTURES  
THIN WALLED SHELLS  
WEBS (SUPPORTS)  
MEMBRANE THEORY  
USE MEMBRANE STRUCTURES  
#STRUCTURAL ANALYSIS  
#MEMBRANES  
0403 0406 1504  
UF WEBS (MEMBRANES)  
RT CHOROID MEMBRANES  
CONJUNCTIVA  
ION EXCHANGE MEMBRANE ELECTROLYTES  
MEMBRANE STRUCTURES  
PLEURAE  
SKIN (STRUCTURAL MEMBER)  
RT DIAPHRAGMS  
DIAPHRAGMS (MECHANICS)

## MERCATOR PROJECTION

FILMS  
LAYERS  
OSMOSIS  
PERITONEUM  
SEPTUM  
SHEETS  
#SHELLS (STRUCTURAL FORMS)  
SKIN (ANATOMY)  
WEBS  
WEBS (SHEETS)  
WEBS (SUPPORTS)  
MEMORY  
0408 0410 0801 0802 1504 2102  
(LIMITED TO SENTIENT ORGANISMS--  
EXCLUDES COMPUTER STORAGE DEVICES AND  
PLASTIC MEMORY)  
RT #EDUCATION  
#LEARNING  
#MNEMONICS  
#RECOGNITION  
RETENTION (PSYCHOLOGY)  
MEMORY STORAGE UNITS  
USE #COMPUTER STORAGE DEVICES  
CORE STORAGE  
MENDELEVIUM  
0603 1703 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPIES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPIES  
TRANSURANIUM ELEMENTS  
MENINGITIS  
0405 0408  
BT #DISEASES  
INFECTIOUS DISEASES,  
MENISCI  
1202  
BT LIQUID SURFACES  
RT CURVES (GEOMETRY)  
LIQUID-GAS MIXTURES  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES  
SURFACES  
MENSTRUATION  
0404 0405 0408  
BT PHYSIOLOGY  
MENTAL HEALTH  
0401 0405 0408 0410  
RT #HUMAN PERFORMANCE  
INTELLIGENCE  
MENTAL PERFORMANCE  
NEUROPSYCHIATRY  
PSYCHOTHERAPY  
RORSCHACH TESTS  
SCHIZOPHRENIA  
MENTAL PERFORMANCE  
0408 0410 0502  
RT CONSCIOUSNESS  
#HUMAN PERFORMANCE  
HYPERNEA  
INTELLECT  
INTELLIGENCE  
IRRATIONALITY  
LIES  
MENTAL HEALTH  
OPERATOR PERFORMANCE  
PERFORMANCE  
PSYCHOMOTOR PERFORMANCE  
STRESS (PSYCHOLOGY)  
MENTAL STRESS  
USE STRESS (PSYCHOLOGY)  
MENTHOL  
0405 1808  
BT #ALIPHATIC COMPOUNDS  
CYCLIC HYDROCARBONS  
#HYDROCARBONS  
TERPENES  
MEPROBANATE  
0403 0404 1808  
BT #ALIPHATIC COMPOUNDS  
#ESTERS  
MERCAPTAN  
USE THIOLS  
MERCAPTO COMPOUNDS  
USE THIOLS  
MERCATOR PROJECTION  
1303  
BT ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY

# MERCURY (METAL)

#GEOMETRY  
PROJECTIVE GEOMETRY  
RT #MAPS  
MERCURY (METAL)  
0603 1703  
UF LIQUID MERCURY  
NT MERCURY ISOTOPES  
MERCURY VAPOR  
BT #CHEMICAL ELEMENTS  
LIQUID METALS  
#LIQUIDS  
#METALS  
MERCURY (PLANET)  
3001 3008  
BT #CELESTIAL BODIES  
PLANETS  
MERCURY ALLOYS  
1701 1704  
NT MERCURY AMALGAMS  
BT #ALLOYS  
MERCURY AMALGAMS  
1701 1704  
UF AMALGAMS  
BT #ALLOYS  
MERCURY ALLOYS  
MERCURY ARCS  
2402 2502  
BT ELECTRIC ARCS  
#ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
RT ABC LAMPS  
MERCURY VAPOR  
METALLIC PLASMAS  
#RECTIFIERS  
MERCURY COMPOUNDS  
0603 1804  
NT MERCURY OXIDES  
MERCURY TELLURIDES  
RT GROUP 2B COMPOUNDS  
METAL COMPOUNDS  
MERCURY FLIGHTS  
3104 3409  
NT MERCURY MA-1 FLIGHT  
MERCURY MA-2 FLIGHT  
MERCURY MA-3 FLIGHT  
MERCURY MA-4 FLIGHT  
MERCURY MA-5 FLIGHT  
MERCURY MA-6 FLIGHT  
MERCURY MA-7 FLIGHT  
MERCURY MA-8 FLIGHT  
MERCURY MA-9 FLIGHT  
MERCURY MR-1 FLIGHT  
MERCURY MR-2 FLIGHT  
MERCURY MR-3 FLIGHT  
MERCURY MR-4 FLIGHT  
BT MANNED SPACE FLIGHT  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
#MANNED SPACECRAFT  
MERCURY PROJECT  
MERCURY SPACECRAFT  
#SPACE CAPSULES  
MERCURY ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
MERCURY (METAL)  
NUCLIDES  
MERCURY LAMPS  
0603 1411  
BT #LIGHTING EQUIPMENT  
LUMINAIRES  
RT LIGHT SOURCES  
PHOSPHORS  
STERILIZATION  
XENON LAMPS  
MERCURY MA-1 FLIGHT  
3104 3409  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
MERCURY PROJECT  
MERCURY MA-2 FLIGHT  
3104 3409  
UF MA-2 MISSION  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
FAITH 7  
MERCURY PROJECT

MERCURY MA-3 FLIGHT  
3104 3409  
UF MA-3 FLIGHT  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
MERCURY PROJECT  
MERCURY MA-4 FLIGHT  
3104 3409  
UF MA-4 FLIGHT  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
MERCURY PROJECT  
MERCURY MA-5 FLIGHT  
3104 3409  
UF MA-5 FLIGHT  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
MERCURY PROJECT  
MERCURY MA-6 FLIGHT  
3104 3409  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
FRIENDSHIP 7  
MERCURY PROJECT  
MERCURY MA-7 FLIGHT  
3104 3409  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
AURORA 7  
MERCURY PROJECT  
MERCURY MA-8 FLIGHT  
3104 3409  
UF MA-8 FLIGHT  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
MERCURY PROJECT  
SIGMA 7  
MERCURY MA-9 FLIGHT  
3104 3409  
UF MA-9 FLIGHT  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT ATLAS LAUNCH VEHICLES  
FAITH 7  
MERCURY PROJECT  
MERCURY MR-1 FLIGHT  
3004 3104 3009 3104  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT MERCURY PROJECT  
MERCURY MR-2 FLIGHT  
3009 3104  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT MERCURY PROJECT  
MERCURY MR-3 FLIGHT  
3009 3104  
UF MR-3 FLIGHT  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT FREEDOM 7  
MERCURY PROJECT  
MERCURY MR-4 FLIGHT  
3009 3104  
BT MANNED SPACE FLIGHT  
MERCURY FLIGHTS  
#SPACE FLIGHT  
RT LIBERTY BELL 7  
MERCURY PROJECT  
MERCURY OXIDES  
0603 1804  
BT #CHALCOGENIDES  
MERCURY COMPOUNDS  
METAL OXIDES  
OXIDES

# NASA THESAURUS (ALPHABETICAL LISTING)

MERCURY PROJECT  
3104 3409  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT APOLLO PROJECT  
ATLAS LAUNCH VEHICLES  
GEMINI PROJECT  
LITTLE JOE 2 LAUNCH VEHICLE  
MANNED SPACE FLIGHT  
#MANNED SPACECRAFT  
MERCURY FLIGHTS  
MERCURY MA-1 FLIGHT  
MERCURY MA-2 FLIGHT  
MERCURY MA-3 FLIGHT  
MERCURY MA-4 FLIGHT  
MERCURY MA-5 FLIGHT  
MERCURY MA-6 FLIGHT  
MERCURY MA-7 FLIGHT  
MERCURY MA-8 FLIGHT  
MERCURY MA-9 FLIGHT  
MERCURY MR-1 FLIGHT  
MERCURY MR-2 FLIGHT  
MERCURY MR-3 FLIGHT  
MERCURY MR-4 FLIGHT  
MERCURY SPACECRAFT  
MERCURY SPACECRAFT  
3104 3409  
NT AURORA 7  
FAITH 7  
FREEDOM 7  
FRIENDSHIP 7  
LIBERTY BELL 7  
SIGMA 7  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
#SPACE CAPSULES  
RT MERCURY FLIGHTS  
MERCURY PROJECT  
MERCURY TELLURIDES  
0603 1804  
BT #CHALCOGENIDES  
MERCURY COMPOUNDS  
TELLURIDES  
#TELLURIUM COMPOUNDS  
MERCURY VAPOR  
0603 1203 1703  
BT #CHEMICAL ELEMENTS  
LIQUID METALS  
#LIQUIDS  
MERCURY (METAL)  
METAL VAPORS  
#VAPORS  
RT CESIUM VAPOR  
MERCURY ARCS  
SODIUM VAPOR  
MERGING ROUTINES  
0802 1504 3407  
BT #COMPUTER PROGRAMS  
MERIDIANS  
USE LATITUDE  
LONGITUDE  
MERIDIONAL FLOW  
1202 1203 1204  
BT AIR CURRENTS  
AIR FLOW  
#FLUID FLOW  
GAS FLOW  
RT ATMOSPHERIC CIRCULATION  
FLOW GEOMETRY  
#WIND (METEOROLOGY)  
WIND DIRECTION  
MEROMORPHIC FUNCTIONS  
0402 0404 1902  
NT ELLIPTIC FUNCTIONS  
RATIONAL FUNCTIONS  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
MERWINITE  
1805 1806  
BT #CALCIUM COMPOUNDS  
#MAGNESIUM COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
MESH  
0202 0508 1103 1704 1805 1811 3202  
RT FABRICS  
GRIDS

# NASA THESAURUS (ALPHABETICAL LISTING)

STRANDS  
 WEBBING  
 WEBS  
 MESITYLENE  
 1808  
 BT #HYDROCARBONS  
 MESON-NUCLEON INTERACTIONS  
 2304 2403 2405  
 RT CHARGED PARTICLES  
 INTERACTIONS  
 MESONS  
 YUKAWA POTENTIAL  
 MESON RESONANCES  
 2403 2901  
 BT BOSONS  
 ELEMENTARY PARTICLES  
 FERMIONS  
 MESONS  
 NUCLEAR PARTICLES  
 #PARTICLES  
 #RESONANCE  
 RT HYPERONS  
 MESONS  
 2401 2403  
 RT ETA-MESONS  
 MESON RESONANCES  
 BT BOSONS  
 ELEMENTARY PARTICLES  
 FERMIONS  
 NUCLEAR PARTICLES  
 #PARTICLES  
 RT BOSON FIELDS  
 BOSONS  
 CHARGED PARTICLES  
 CORPUSCULAR RADIATION  
 COSMIC RAYS  
 HYPERONS  
 MESON-NUCLEON INTERACTIONS  
 MUONIUM  
 POMERANCHUK THEOREM  
 STRANGENESS  
 MESOPAUSE  
 1302  
 (ALTITUDE APPROXIMATELY 90 KM)  
 BT #EARTH ATMOSPHERE  
 RT MESOSPHERE  
 MESOPHILES  
 0404 0407  
 BT #MICROORGANISMS  
 RT PSYCHROPHILES  
 THERMOPHILES  
 MESOSPHERE  
 1302 2003  
 BT #EARTH ATMOSPHERE  
 RT CREMOSPHERE  
 HOMOSPHERE  
 IONOSPHERE  
 MESOPAUSE  
 MESSAGES  
 0703 3405  
 RT #COMMUNICATION THEORY  
 INFORMATION THEORY  
 INTELLIGIBILITY  
 SEMANTICS  
 SENTENCES  
 SIGNALS  
 SYLLABLES  
 SYMBOLS  
 VOCODERS  
 HESSERSCHMITT ME P-160 AIRCRAFT  
 USE P-160 AIRCRAFT  
 HESSERSCHMITT ME P-308 AIRCRAFT  
 USE P-308 AIRCRAFT  
 METABOLIC WASTES  
 0403 0406 0505  
 RT PECES  
 HUMAN WASTES  
 URINE  
 BT #WASTES  
 RT AIR POLLUTION  
 CARBON DIOXIDE  
 ENVIRONMENT POLLUTION  
 EXPIRED AIR  
 #POLLUTION  
 SEWAGE  
 WASTE DISPOSAL  
 #METABOLISM  
 0403 0404 0408  
 RT ADRENAL METABOLISM  
 ASCORBIC ACID METABOLISM  
 CALCIUM METABOLISM  
 CARBOHYDRATE METABOLISM

CATABOLISM  
 ELECTROLYTE METABOLISM  
 ENZYME ACTIVITY  
 FERMENTATION  
 HORMONE METABOLISMS  
 HYPERGLYCEMIA  
 HYPOGLYCEMIA  
 HYPOMETABOLISM  
 LIPID METABOLISM  
 OXYGEN METABOLISM  
 PHOSPHORUS METABOLISM  
 PROTEIN METABOLISM  
 RT ENZYMOLOGY  
 HETEROTROPHS  
 HOMEOSTASIS  
 KREBS CYCLE  
 NUTRITION  
 OXYGEN CONSUMPTION  
 RESPIRATION  
 #SECRETIONS  
 THERMOREGULATION  
 METAGALAXY  
 USE UNIVERSE  
 METAL AIR BATTERIES  
 0302  
 RT ZINC-OXYGEN BATTERIES  
 DIRECT POWER GENERATORS  
 ELECTRIC BATTERIES  
 #ELECTRIC GENERATORS  
 #ELECTROCHEMICAL CELLS  
 PRIMARY BATTERIES  
 RT DRY CELLS  
 STORAGE BATTERIES  
 METAL ALLOYS  
 USE #ALLOYS  
 METAL BONDING  
 1507 1704  
 RT METAL-METAL BONDING  
 BT #BONDING  
 RT ADHESION  
 ADHESIVE BONDING  
 Bimetals  
 BRAZING  
 DIFFUSION WELDING  
 EXPLOSIVE WELDING  
 #JOINTS (JUNCTIONS)  
 LAMINATES  
 RESIN BONDING  
 SOLDERING  
 #WELDING  
 METAL CARBIDES  
 USE CARBIDES  
 METAL COATINGS  
 1704 3305  
 (COATINGS CONSISTING OF METAL)  
 RT ALUMINUM COATINGS  
 GOLD COATINGS  
 NICKEL COATINGS  
 ZINC COATINGS  
 BT #COATINGS  
 RT CERAMIC COATINGS  
 CLADDING  
 CORROSION  
 CORROSION PREVENTION  
 #DEPOSITION  
 LACQUERS  
 METAL FILMS  
 METAL SPRAYING  
 METALLIZING  
 METALLURGY  
 #METALS  
 OXIDES  
 PAINTS  
 PLATES  
 PLATING  
 PRIMERS (COATINGS)  
 PROTECTIVE COATINGS  
 SPRAYED COATINGS  
 METAL COMBUSTION  
 0602 1704 2809 3301  
 BT #COMBUSTION  
 RT FUEL COMBUSTION  
 GAS-METAL INTERACTIONS  
 #METALS  
 OXIDATION  
 PROPELLANT COMBUSTION  
 PYROPHORIC MATERIALS  
 SOLID PROPELLANT IGNITION  
 METAL COMPOUNDS  
 0603 1704 1804  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED

# METAL CUTTING

BELOW)  
 RT #ALUMINUM COMPOUNDS  
 AMHINES  
 BARIUM COMPOUNDS  
 BERYLLIUM COMPOUNDS  
 BISMUTH COMPOUNDS  
 CADMIUM COMPOUNDS  
 #CALCIUM COMPOUNDS  
 CERIUM COMPOUNDS  
 #CESIUM COMPOUNDS  
 #CHROMIUM COMPOUNDS  
 COBALT COMPOUNDS  
 #COPPER COMPOUNDS  
 ERBIUM COMPOUNDS  
 EUROPIUM COMPOUNDS  
 #GALLIUM COMPOUNDS  
 HAFNIUM COMPOUNDS  
 INDIUM COMPOUNDS  
 IRON COMPOUNDS  
 LANTHANUM COMPOUNDS  
 LEAD COMPOUNDS  
 #LITHIUM COMPOUNDS  
 LUTETIUM COMPOUNDS  
 #MAGNESIUM COMPOUNDS  
 #MANGANESE COMPOUNDS  
 MERCURY COMPOUNDS  
 METAL HALIDES  
 METAL HYDRIDES  
 METAL OXIDES  
 #METALS  
 #MOLYBDENUM COMPOUNDS  
 NEODYMIUM COMPOUNDS  
 NEPTUNIUM COMPOUNDS  
 NICKEL COMPOUNDS  
 #NIOBIUM COMPOUNDS  
 #ORGANOMETALLIC COMPOUNDS  
 OSMIUM COMPOUNDS  
 PLATINUM COMPOUNDS  
 PLUTONIUM COMPOUNDS  
 POTASSIUM COMPOUNDS  
 PROTACTINIUM COMPOUNDS  
 #RARE EARTH COMPOUNDS  
 RHENIUM COMPOUNDS  
 RUBIDIUM COMPOUNDS  
 RUTHENIUM COMPOUNDS  
 SAMARIUM COMPOUNDS  
 SCANDIUM COMPOUNDS  
 #SILVER COMPOUNDS  
 #SODIUM COMPOUNDS  
 #STRONTIUM COMPOUNDS  
 TANTALUM COMPOUNDS  
 TECHNETIUM COMPOUNDS  
 THALLIUM COMPOUNDS  
 THORIUM COMPOUNDS  
 THULIUM COMPOUNDS  
 #TIN COMPOUNDS  
 #TITANIUM COMPOUNDS  
 #TUNGSTEN COMPOUNDS  
 URANIUM COMPOUNDS  
 #VANADIUM COMPOUNDS  
 YTTERBIUM COMPOUNDS  
 YTTRIUM COMPOUNDS  
 #ZINC COMPOUNDS  
 #ZIRCONIUM COMPOUNDS  
 METAL CORROSION  
 USE CORROSION  
 METAL CRYSTALS  
 1704 2601  
 BT #CRYSTALS  
 RT #CRYSTAL LATTICES  
 CRYSTAL STRUCTURE  
 METALLOGRAPHY  
 #METALS  
 METAL CUTTING  
 1504 1704  
 BT CUTTING  
 RT COUNTERSINKING  
 GRINDING (MATERIAL REMOVAL)  
 KNURLING  
 MACHINE TOOLS  
 #MACHINING  
 MELTING  
 #METAL WORKING  
 MILLING (MACHINING)  
 PERFORATING  
 PLANING  
 SCRAPING  
 SHEARING  
 SLICING  
 SPARK MACHINING  
 SPIKING

# METAL DRAWING

## METAL DRAWING

1504 1704  
BT #FORMING TECHNIQUES  
#METAL WORKING  
BT BULGING  
BUNDLE DRAWING  
COLD DRAWING  
COLD WORKING  
DRAWING  
DUCTILITY  
HOT WORKING  
MAGNETIC FORMING  
STRETCH FORMING

## METAL FATIGUE

1704 3203 3204  
BT FATIGUE (MATERIALS)  
BT BENDING FATIGUE  
CRACK INITIATION  
CRACK PROPAGATION  
FRACTURING  
RUPTURING  
S-N DIAGRAMS  
STRESS CORROSION  
THERMAL FATIGUE

## METAL FILMS

1704 1802  
RT #COATINGS  
FILMS  
METAL COATINGS  
METAL FOILS  
METALLIZING  
#METALS  
NICKEL COATINGS  
SPUTTERING GAGES  
THIN FILMS

## #METAL FINISHING

1504 1701 1704  
NT ELECTROPOLISHING  
PEENING  
SHOT PEENING  
BT CLEANING  
COATING  
#COATINGS  
DESCALING  
METAL SPRAYING  
#METAL WORKING  
PLATING  
SURFACE FINISHING

## METAL FOILS

1701 1704  
BT FOILS (MATERIALS)  
BT HONEYCOMB STRUCTURES  
METAL FILMS  
METAL PLATES  
METAL SHEETS  
METAL STRIPS  
#METALS  
MULTILAYER INSULATION  
SHEETS

## METAL FORGING

USE FORGING  
METAL FORMING  
USE #FORMING TECHNIQUES  
#METAL WORKING

## METAL FUELS

1704 2702 2809  
BT CHEMICAL FUELS  
#FUELS  
BT #ALUMINUM COMPOUNDS  
BERYLLIUM COMPOUNDS  
#BORON COMPOUNDS  
#CESIUM COMPOUNDS  
GELLED PROPELLANTS  
HYBRID PROPELLANTS  
#LITHIUM COMPOUNDS  
METAL PROPELLANTS  
#METALS  
SLURRY PROPELLANTS  
SOLID PROPELLANTS

## METAL-GAS SYSTEMS

0602 0603 1203 1704  
BT GAS LUBRICANTS  
GAS-METAL INTERACTIONS  
#GASES  
METAL SURFACES  
METAL VAPORS  
#METALS  
VAPOR PHASES

## METAL GRINDING

1504 1704 3407  
BT GRINDING (MATERIAL REMOVAL)

# METAL HALIDES

0603 1704 1804  
NT ALKALI HALIDES  
ALUMINUM CHLORIDES  
ALUMINUM FLUORIDES  
BARIUM FLUORIDES  
BERYLLIUM CHLORIDES  
BERYLLIUM FLUORIDES  
CADMIUM CHLORIDES  
CADMIUM FLUORIDES  
CALCIUM CHLORIDES  
CALCIUM FLUORIDES  
CESIUM BROMIDES  
CESIUM FLUORIDES  
CESIUM HALIDES  
CESIUM IODIDES  
CHROMIUM BROMIDES  
CHROMIUM FLUORIDES  
COBALT FLUORIDES  
COPPER CHLORIDES  
COPPER FLUORIDES  
FLUORSPAR  
HAFNIUM IODIDES  
IRON CHLORIDES  
LANTHANUM CHLORIDES  
LANTHANUM FLUORIDES  
LEAD CHLORIDES  
LITHIUM CHLORIDES  
LITHIUM FLUORIDES  
MAGNESIUM BROMIDES  
MAGNESIUM FLUORIDES  
NICKEL FLUORIDES  
NIOBIUM IODIDES  
PLUTONIUM FLUORIDES  
POTASSIUM BROMIDES  
POTASSIUM CHLORIDES  
POTASSIUM IODIDES  
PROTACTINIUM FLUORIDES  
SILVER BROMIDES  
SILVER CHLORIDES  
SILVER HALIDES  
SILVER IODIDES  
SODIUM BROMIDES  
SODIUM CHLORIDES  
SODIUM FLUORIDES  
SODIUM IODIDES  
STRONTIUM FLUORIDES  
TECHNETIUM FLUORIDES  
THORIUM FLUORIDES  
TITANIUM CHLORIDES  
TUNGSTEN CHLORIDES  
TUNGSTEN FLUORIDES  
TUNGSTEN HALIDES  
URANIUM FLUORIDES  
ZINC FLUORIDES  
ZIRCONIUM IODIDES

## BT HALIDES

## #HALOGEN COMPOUNDS

## BT METAL COMPOUNDS

## METAL HARDENING

## USE #HARDENING (MATERIALS)

## METAL HYDRIDES

0603 1704 1804  
UP PLUMBANE  
NT ALUMINUM BOROHYDRIDES  
ALUMINUM HYDRIDES  
BERYLLIUM HYDRIDES  
CESIUM HYDRIDES  
LITHIUM ALUMINUM HYDRIDES  
LITHIUM HYDRIDES  
POTASSIUM HYDRIDES  
SODIUM HYDRIDES  
BT HYDRIDES

## #HYDROGEN COMPOUNDS

## BT METAL COMPOUNDS

## METAL INSULATOR SEMICONDUCTORS

## USE MIS (SEMICONDUCTORS)

## METAL IONS

0603 1804  
NT FERRIC ION  
MANGANESE IONS  
VANADYL RADICAL  
BT CATIONS  
CHARGED PARTICLES  
#IONS  
#PARTICLES

## METAL JOINTS

1507 3203  
NT SOLDERED JOINTS  
SPOT WELDS  
WELDED JOINTS  
BT #JOINTS (JUNCTIONS)

# NASA THESAURUS (ALPHABETICAL LISTING)

BT BUTT JOINTS  
EXPLOSIVE WELDING  
LAP JOINTS  
METAL-METAL BONDING  
RIVETED JOINTS  
SEAMS (JOINTS)

## METAL MATRIX COMPOSITES

1704 1801 1805 1809

## BT #COMPOSITE MATERIALS

## #MIXTURES

## BT ELECTRODEPOSITION

## #FIBERS

## MATERIALS

## MATRICES

## #METALS

PLASMA SPRAYING  
POWDER METALLURGY  
REINFORCING FIBERS  
WHISKER COMPOSITES

## METAL-METAL BONDING

0602 1701 1704 1507

## BT #BONDING

## METAL BONDING

## BT ADHESIVE BONDING

## ADHESIVES

## DIFFUSION WELDING

## EXPLOSIVE WELDING

## METAL JOINTS

## RESIN BONDING

## SOLDERING

## #WELDING

## METAL OXIDE SEMICONDUCTORS

0603 1704 1804 2602

## UP MOS (SEMICONDUCTORS)

## BT #ELECTRONIC EQUIPMENT

## SEMICONDUCTOR DEVICES

## SEMICONDUCTORS (MATERIALS)

## SOLID STATE DEVICES

## RT #RECTIFIERS

## METAL OXIDES

0603 1704 1804

## NT AKERMANITE

## ALKALINE EARTH OXIDES

## ALUMINUM OXIDES

## ANATASE

## BARIUM OXIDES

## BERYLLIUM OXIDES

## BISMUTH OXIDES

## CALCIUM OXIDES

## CERIUM OXIDES

## CESIUM OXIDES

## CHROMITES

## CHROMIUM OXIDES

## COBALT OXIDES

## COPPER OXIDES

## HAFNIUM OXIDES

## HEMATITE

## HOPCALITE (TRADEMARK)

## ILMENITE

## IRON OXIDES

## LANTHANUM OXIDES

## LEAD OXIDES

## LITHIUM OXIDES

## MAGNESIUM OXIDES

## MAGNETITE

## MANGANESE OXIDES

## MERCURY OXIDES

## MOLYBDENUM OXIDES

## NICKEL OXIDES

## NIOBIUM OXIDES

## PERICLASE

## PLATINUM OXIDES

## PLUTONIUM OXIDES

## POTASSIUM OXIDES

## RUTILE

## SAPPHIRE

## SCANDIUM OXIDES

## SCHAEHLITE

## SILVER OXIDES

## SODIUM PEROXIDES

## TANTALUM OXIDES

## THORIUM OXIDES

## TIN OXIDES

## TITANIUM OXIDES

## TUNGSTEN OXIDES

## URANIUM OXIDES

## VANADIUM OXIDES

## YTTRIUM OXIDES

## ZINC OXIDES

## ZIRCONIUM OXIDES

## BT #CHALCOGENIDES

## OXIDES

# NASA THESAURUS (ALPHABETICAL LISTING)

RT METAL COMPOUNDS  
VANADATES  
METAL PARTICLES  
0603 1704 1804  
NT METAL POWDER  
PLATINUM BLACK  
POWDERED ALUMINUM  
BT #PARTICLES  
RT POWDER METALLURGY  
SCRAP  
SPUTTERING  
METAL PLATES  
0102 0104 1507 1704 3203  
UP PLATE (METAL)  
NT BOILER PLATE  
RT ARMOR  
BARS  
BILLETS  
FLANGES  
FLAT PLATES  
GIRDER WEBS  
METAL FOILS  
METAL STRIPS  
PARALLEL PLATES  
PLATES  
PLATES (STRUCTURAL MEMBERS)  
RECTANGULAR PLATES  
SLABS  
THIN PLATES  
METAL POLISHING  
1504 1704 3404  
UP POLISHED METALS  
NT ELECTROPOLISHING  
BT #POLISHING  
RT CLEANING  
SURFACE FINISHING  
METAL POWDER  
1701 1704  
UP POWDERED METALS  
NT PLATINUM BLACK  
POWDERED ALUMINUM  
BT METAL PARTICLES  
POWDER (PARTICLES)  
RT ATOMIZING  
BEARING ALLOYS  
COMMINUTION  
COMPRESSIBILITY  
COMPRESSING  
ELECTRODEPOSITION  
FLAKES  
#METALS  
MIXING  
#PARTICLES  
POROUS MATERIALS  
REDUCTION (CHEMISTRY)  
SINTERING  
SIZE SEPARATION  
METAL PROPELLANTS  
1704 2702 2809  
BT #FUELS  
#PROPELLANTS  
ROCKET PROPELLANTS  
SOLID PROPELLANTS  
SOLID ROCKET PROPELLANTS  
RT #ALUMINUM COMPOUNDS  
BERYLLIUM COMPOUNDS  
#BORON COMPOUNDS  
GELLED PROPELLANTS  
GELLED ROCKET PROPELLANTS  
HYBRID PROPELLANTS  
METAL FUELS  
MONOPROPELLANTS  
SLURRY PROPELLANTS  
METAL SHEETS  
1504 1704  
UP SHEET METAL  
RT METAL FOILS  
METAL STRIPS  
PLATES (STRUCTURAL MEMBERS)  
SHEETS  
METAL SHELLS  
0102 0104 1704 3203  
BT #SHELLS (STRUCTURAL FORMS)  
RT CIRCULAR SHELLS  
CYLINDRICAL SHELLS  
HEMISPHERICAL SHELLS  
BULBS (STRUCTURES)  
MEMBRANE STRUCTURES  
ORTHOTROPIC SHELLS  
REINFORCED SHELLS  
SKIN (STRUCTURAL MEMBER)  
SPHERICAL SHELLS

THIN WALLED SHELLS  
TOROIDAL SHELLS  
METAL SPINNING  
1504 1704 3404 3407  
UP SPIN FORGING  
SPINNING (METALLURGY)  
RT HYDROSPINNING  
BT #FORMING TECHNIQUES  
#METAL WORKING  
#SPIN  
RT COLD WORKING  
EXTRUDING  
HOT WORKING  
METAL SPRAYING  
1504 1701 1704 3407  
BT SPRAYING  
RT ARC SPRAYING  
COATING  
#COATINGS  
FLAME SPRAYING  
METAL COATINGS  
#METAL FINISHING  
METALLIZING  
SURFACE FINISHING  
METAL STRIPS  
1504 1507 1704 3404  
RT BILLETS  
METAL FOILS  
METAL PLATES  
METAL SHEETS  
RIBBONS  
METAL SURFACES  
1704 3203  
RT CRACK INITIATION  
CRYSTAL SURFACES  
EROSION  
GAS-SOLID INTERFACES  
LIQUID-SOLID INTERFACES  
METAL-GAS SYSTEMS  
SOLID SURFACES  
SURFACE FINISHING  
#SURFACE PROPERTIES  
SURFACE REACTIONS  
SURFACES  
METAL VAPORS  
0603 1203 1704  
NT MERCURY VAPOR  
SODIUM VAPOR  
BT #VAPORS  
RT ALKALI METALS  
GAS-METAL INTERACTIONS  
HEAT TRANSFER  
LIQUID METALS  
METAL-GAS SYSTEMS  
#METALS  
VAPOR DEPOSITION  
METAL-WATER REACTIONS  
0603 0604 1702  
BT #CHEMICAL REACTIONS  
RT CORROSION  
ELECTROCHEMICAL CORROSION  
EROSION  
PITTING  
RUSTING  
SURFACE REACTIONS  
METAL WHISKER REINFORCEMENT  
USE WHISKER COMPOSITES  
#METAL WORKING  
1504 1507 1704 3404 3407  
(METAL DEFORMATION FOR CHANGING SHAPE  
AND FOR PROPERTIES--EXCLUDES CASTING,  
CUTTING, DEPOSITION PROCESS AND  
MACHINING)  
UP METAL FORMING  
RT AUSFORMING  
BULGING  
CLADDING  
COINING  
EXPLOSIVE FORMING  
FORGING  
HYDROFORMING  
HYDROSPINNING  
MAGNETIC FORMING  
METAL DRAWING  
METAL SPINNING  
SIZING (SHAPING)  
RT BRAKES (FORMING OR BENDING)  
BREAKDOWN  
CASTING  
COLD PRESSING  
COLD ROLLING  
COLD WORKING

# METALLOIDS

DEEP DRAWING  
DIMPLING  
ELECTROHYDRAULIC FORMING  
ELECTROMAGNETIC HAMMERS  
EXPLOSIVE WELDING  
EXTRUDING  
FLATTENING  
#FORMING TECHNIQUES  
#HARDENING (MATERIALS)  
HOT PRESSING  
HOT WORKING  
LEVELING  
#MACHINING  
MALLEABILITY  
METAL CUTTING  
#METAL FINISHING  
METALLURGY  
PEENING  
PERFORATING  
PIERCING  
PRESSING (FORMING)  
PYROMETALLURGY  
REDUCTION  
ROLL FORMING  
ROLLING  
SHEARING  
SHOT PEENING  
STAMPING  
STRETCH FORMING  
STRETCHING  
SWAGING  
TEMPERING  
WINDING  
WORK HARDENING  
METALLIC PLASMAS  
1703 2502 1704  
NT CESIUM PLASMA  
BT #PLASMAS (PHYSICS)  
RT ELECTRON PLASMA  
MERCURY ABCS  
#PARTICLES  
PLASMA SHEATHS  
METALLIZING  
1704 3407  
BT COATING  
#COATINGS  
RT CLADDING  
ELECTROPLATING  
FINISHES  
FLAME SPRAYING  
LAMINATES  
METAL COATINGS  
METAL FILMS  
METAL SPRAYING  
PLATING  
SPRAYING  
SUBSTRATES  
VAPOR DEPOSITION  
METALLOGRAPHY  
1704  
RT ABRASION  
#ALLOYS  
#ANISOTROPY  
#CRYSTAL LATTICES  
CRYSTALLOGRAPHY  
ELECTROPOLISHING  
ETCHING  
INCLUSIONS  
ISOTROPY  
MATERIALS TESTS  
METAL CRYSTALS  
METALLURGY  
#METALS  
MICROPOROSITY  
MICROSCOPES  
MICROSTRUCTURE  
ORDER-DISORDER TRANSFORMATIONS  
PHOTOMICROGRAPHY  
#POLISHING  
RADIOGRAPHY  
REPLICAS  
SOLID SUSPENSIONS  
VIBRATORY POLISHING  
WIDMANSTATTEN STRUCTURE  
X RAY DIFFRACTION  
METALLOIDS  
0603 1703 1807  
UP SEMIMETALS  
NT ARSENIC  
BORON  
BORON ISOTOPES  
BORON 10

# METALLORGANIC COMPOUNDS

GERMANIUM ISOTOPES  
SILICON ISOTOPES  
BT #CHEMICAL ELEMENTS  
BT INTERMETALLICS  
#METALS  
#ORGANOMETALLIC COMPOUNDS  
SEMICONDUCTORS (MATERIALS)  
METALLORGANIC COMPOUNDS  
USE #ORGANOMETALLIC COMPOUNDS  
METALLOXIDE POLYMER  
1808 1810  
RT #ORGANOMETALLIC COMPOUNDS  
POLYMERS  
METALLOXIDE POLYMER  
1808 1810  
BT #ORGANOMETALLIC COMPOUNDS  
RT POLYMERS.  
METALLURGY  
1704  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ALLOYS  
BENEFICIATION  
CASTING  
COATING  
CORROSION  
CRYSTALLOGRAPHY  
DUPLEX OPERATION  
FERROUS METALS  
FOUNDRIES  
FRACTOGRAPHY  
FURNACES  
#HARDENING (MATERIALS)  
#HEAT TREATMENT  
HYDROMETALLURGY  
LIGHT ALLOYS  
#MECHANICAL PROPERTIES  
MELTING  
METAL COATINGS  
#METAL WORKING  
METALLOGRAPHY  
#METALS  
NONFERROUS METALS  
POWDER METALLURGY  
PYROMETALLURGY  
RECRYSTALLIZATION  
SMELTING  
#METALS  
1701 1703 1704  
UP MAGNETIC METALS  
RT ACTINIDE SERIES  
ACTINIUM  
ALKALI METALS  
ALKALINE EARTH METALS  
ALUMINUM  
AMERICIUM  
AMERICIUM 241  
ANTIMONY  
ASTATINE  
BARIUM  
BERKELIUM  
BERYLLIUM  
BISMUTH  
CADMIUM  
CALCIUM  
CALIFORNIUM  
CERIUM  
CESIUM  
CESIUM 133  
CHROMIUM  
COBALT  
COPPER ISOTOPES  
CURIUM  
DYSPROSIUM  
EINSTEINIUM  
ERBIUM  
EUROPIUM  
FERMIUM  
FERROUS METALS  
FRANCIUM  
GADOLINIUM  
GALLIUM  
GOLD  
HAFNIUM  
HOLMIUM  
INDIUM  
IRIDIUM  
IRON  
LANTHANUM  
LAWRENCIUM  
LEAD (METAL)

LIQUID METALS  
LITHIUM  
LUTETIUM  
MAGNESIUM  
MANGANESE  
MEDELEVIVUM  
MERCURY (METAL)  
MOLYBDENUM  
NEODYMIUM  
NEPTUNIUM  
NICKEL  
NIOBIUM  
NOBELIUM  
NOBLE METALS  
NONFERROUS METALS  
OSMIUM  
PALLADIUM  
PLATINUM  
PLATINIUM ISOTOPES  
PLUTONIUM  
POTASSIUM  
PRASEODYMIUM  
PROMETHIUM  
PROTACTINIUM  
RADIUM  
RARE EARTH ELEMENTS  
REFRACTORY METALS  
RHENIUM  
RHODIUM  
RUBIDIUM  
RUTHENIUM  
SABARIUM  
SCANDIUM  
SILVER  
SODIUM  
STRONTIUM  
TANTALUM  
TECHNETIUM  
TERBIUM  
THALLIUM  
THORIUM  
THULIUM  
TIN  
TITANIUM  
TRANSITION METALS  
TRANSURANIUM ELEMENTS  
TUNGSTEN  
ULTRAPURE METALS  
URANIUM  
VANADIUM  
YTTERBIUM  
YTTRIUM  
ZIRCONIUM  
RT #ALLOYS  
BIMETALS  
#CHEMICAL ELEMENTS  
#COMPOSITE MATERIALS  
#CONDUCTORS  
INTERMETALLICS  
LIGHT ALLOYS  
LIQUID ALLOYS  
METAL COATINGS  
METAL COMBUSTION  
METAL COMPOUNDS  
METAL CRYSTALS  
METAL FILMS  
METAL FOILS  
METAL FUELS  
METAL-GAS SYSTEMS  
METAL MATRIX COMPOSITES  
METAL POWDER  
METAL VAPORS  
METALLOGRAPHY  
METALLOIDS  
METALLURGY  
NOBLE METALS  
METAMORPHISM (GEOLOGY)  
1306 2601  
RT #PHASE TRANSFORMATIONS  
ROCKS  
METASTABILITY  
USE METASTABLE STATE  
METASTABLE ATOMS  
0603 2601  
BT ATOMS  
RT METASTABLE STATE  
PENNING EFFECT  
METASTABLE STATE  
0603 2405 2601  
UP METASTABILITY  
RT #EXCITATION  
METASTABLE ATOMS

# NASA THESAURUS (ALPHABETICAL LISTING)

#STABILITY  
STEADY STATE  
UNSTEADY STATE  
METATHESIS  
0602 0603  
RT ELECTROLYSIS  
ION EXCHANGING  
METAZOA  
USE #ANIMALS  
METEOR BURSTS  
USE METEOROID SHOWERS  
METEOR HAZARDS  
USE METEOROID HAZARDS  
METEOR 1 ROCKET VEHICLE  
3106  
BT #ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
RAMJET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
METEOR TRAILS  
3001 3005 3009  
UP METEORITIC IONIZATION  
RT BOLIDES  
#EARTH ATMOSPHERE  
METEOROID SHOWERS  
METEORIDS  
MICROMETEORIDS  
PATHS  
PRIBRAM METEORITE  
RADIO METEORS  
SCATTER PROPAGATION  
SPOADIC METEORIDS  
TRACKS  
UPPER ATMOSPHERE  
METEORITE COLLISIONS  
3005 3009  
BT COLLISIONS  
RT HYPERVELOCITY IMPACT  
METEORITE CRATERS  
METEORITIC DAMAGE  
METEOROID HAZARDS  
METEORITE COMPRESSION TESTS  
USE COMPRESSION TESTS  
#MECHANICAL PROPERTIES  
METEORITES  
METEORITE CRATERS  
1306 3004 3005 3201  
UP FOSSIL METEORITE CRATERS  
METEOROID CRATERS  
BT #CRATERS  
RT CANADIAN SHIELD  
CRATERING  
LUNAR CRATERS  
LUNAR RAYS  
MARIA  
MARS SURFACE  
METEORITE COLLISIONS  
METEORITES  
METEORITIC DAMAGE  
PROJECTILE CRATERING  
PTOLEMAEUS CRATER  
TUNGUSK METEORITE  
TYCHO CRATER  
METEORITES  
3005  
(METEORIDS WHICH HAVE REACHED THE  
SURFACE OF AN ASTEROID, NATURAL  
SATELLITE OR PLANET)  
UP METEORITE COMPRESSION TESTS  
BT ACHONDRITES  
ALAIS METEORITE  
ABOOS METEORITE  
AUSTRALITES  
BEDIASITES  
BONDOL METEORITE  
BRUDERHEIM METEORITE  
CARBONACEOUS METEORITES  
CHONDRITES  
COLD BOKKEVELD METEORITE  
DIALPOR METEORITE  
HARLETON METEORITE  
HVITIS CHONDRITE  
IRON METEORITES  
IVUNA METEORITE  
KAPOTA ACHONDRITE  
LAZARV METEORITE  
MURRAY METEORITE  
NORTON COUNTY ACHONDRITE  
ODESSA METEORITE  
OKHANSK METEORITE  
ORGUEIL METEORITE  
PANTAR CHONDRITES



# WASA TREASURES (ALPHABETICAL LISTING)

PRIBRAM METEORITE  
 SIKHOTE-LIN METEORITE  
 STONY METEORITES  
 TEKTITES  
 TONK METEORITE  
 TUNGUSK METEORITE  
 WASHINGTON COUNTY METEORITE  
 YURTUK METEORITE  
 BT #CELESTIAL BODIES  
 RT BOLIDES  
 COESITE  
 FOREIGN BODIES  
 METEORITE CRATERS  
 METEORITIC COMPOSITION  
 METEORITIC MICROSTRUCTURES  
 METEOROID SHOWERS  
 METEORIDS  
 MICROMETEORIDS  
 MOLDAVITE  
 METEORITIC COMPOSITION  
 0601 1306 1704 3005 3009  
 BT #COMPOSITION (PROPERTY)  
 RT CARBONACEOUS METEORITES  
 IRON METEORITES  
 KAMACITE  
 METEORITES  
 METEORITIC DIAMONDS  
 METEORITIC MICROSTRUCTURES  
 SCHREIBERSITE  
 STONY METEORITES  
 TEKTITES  
 TROILITE  
 METEORITIC DAMAGE  
 3005 3009 3110 3201  
 BT #DAMAGE  
 RT IMPACT DAMAGE  
 BOMBARDMENT  
 CRATERING  
 HYPERVELOCITY IMPACT  
 METEORITE COLLISIONS  
 METEORITE CRATERS  
 METEOROID HAZARDS  
 METEOROID PROTECTION  
 PROJECTILE CRATERING  
 METEORITIC DIAMONDS  
 1805 2601 3005  
 BT DIAMONDS  
 RT METEORITIC COMPOSITION  
 METEORITIC MICROSTRUCTURES  
 METEORITIC DUST  
 USE MICROMETEORIDS  
 METEORITIC IONIZATION  
 USE ATMOSPHERIC IONIZATION  
 METEOR TRAILS  
 METEORITIC MICROSTRUCTURES  
 0601 2601 3005  
 BT MICROSTRUCTURE  
 RT IRON METEORITES  
 METEORITES  
 METEORITIC COMPOSITION  
 METEORITIC DIAMONDS  
 STONY METEORITES  
 TEKTITES  
 WIDMANSTATTEN STRUCTURE  
 METEOROID CONCENTRATION  
 3001 3005 3009  
 BT #COMPOSITION (PROPERTY)  
 CONCENTRATION (COMPOSITION)  
 #DENSITY (NUMBER/VOLUME)  
 RT FLUX DENSITY  
 MASS DISTRIBUTION  
 METEOROID DUST CLOUDS  
 METEOROID SHOWERS  
 SPATIAL DISTRIBUTION  
 SPORADIC METEORIDS  
 METEOROID CRATERS  
 USE METEORITE CRATERS  
 METEOROID DUST CLOUDS  
 2403 3005 3009  
 RT ZODIACAL DUST  
 BT #CELESTIAL BODIES  
 COSMIC DUST  
 #DUST  
 INTERPLANETARY DUST  
 INTERPLANETARY MEDIUM  
 #MEDIA  
 METEORIDS  
 MICROMETEORIDS  
 RT EXPLORER SATELLITES  
 METEOROID CONCENTRATION  
 METEOROID SHOWERS  
 TERRESTRIAL DUST BELT

METEOROID HAZARDS  
 3005 3009 3110 3201  
 UP METEOR HAZARDS  
 BT FLIGHT HAZARDS  
 #HAZARDS  
 RT METEORITE COLLISIONS  
 METEORITIC DAMAGE  
 METEOROID PROTECTION  
 METEORIDS  
 OPERATIONAL HAZARDS  
 PROJECTILE CRATERING  
 METEOROID PROTECTION  
 0508 3005 3110 3201 3203  
 BT #PROTECTION  
 RT BUMPERS  
 IMPACT DAMAGE  
 METEORITIC DAMAGE  
 METEOROID HAZARDS  
 SPACECRAFT SHIELDING  
 SPACECRAFT STRUCTURES  
 METEOROID SHOWERS  
 3005 3009 3110  
 UP METEOR BURSTS  
 RT AQUARID METEORIDS  
 ARIETID METEORIDS  
 CYRILLID METEORIDS  
 DRACONID METEORIDS  
 GENIINID METEORIDS  
 LEONID METEORIDS  
 ORIONID METEORIDS  
 PERSEID METEORIDS  
 QUADRANTID METEORIDS  
 TAURID METEORIDS  
 BT #CELESTIAL BODIES  
 RT ASTRONOMY  
 BOLIDES  
 COMETS  
 METEOR TRAILS  
 METEORITES  
 METEOROID CONCENTRATION  
 METEOROID DUST CLOUDS  
 METEORIDS  
 SHELVES  
 SHOWERS  
 METEORIDS  
 3001 3005 3009  
 (SOLID OBJECTS IN SPACE, MUCH SMALLER  
 THAN AN ASTEROID AND MUCH LARGER THAN  
 A MOLECULE)  
 UP METEORS  
 RT AQUARID METEORIDS  
 ARIETID METEORIDS  
 BOLIDES  
 CYRILLID METEORIDS  
 DRACONID METEORIDS  
 GENIINID METEORIDS  
 LEONID METEORIDS  
 METEOROID DUST CLOUDS  
 MICROMETEORIDS  
 ORIONID METEORIDS  
 PERSEID METEORIDS  
 QUADRANTID METEORIDS  
 RADIO METEORS  
 SPORADIC METEORIDS  
 TAURID METEORIDS  
 ZODIACAL DUST  
 BT #CELESTIAL BODIES  
 RT ASTEROIDS  
 BUMPERS  
 COMETS  
 COSMIC DUST  
 HYPERVELOCITY PROJECTILES  
 INTERPLANETARY DUST  
 INTERPLANETARY MEDIUM  
 METEOR TRAILS  
 METEORITES  
 METEOROID HAZARDS  
 METEOROID SHOWERS  
 NATURAL SATELLITES  
 RADIATION METEOROID SPACECRAFT  
 SOLAR SYSTEM  
 SPACE DEBRIS  
 VESTA ASTEROID  
 METEOROLOGICAL BALLOONS  
 0205 2002 2003 3202  
 RT ROBIN BALLOONS  
 BT BALLOONS  
 #EXPANDABLE STRUCTURES  
 RT INFLATABLE STRUCTURES  
 DROPSONDES  
 HIGH ALTITUDE BALLOONS  
 METEOROLOGICAL FLIGHT

## METEOROLOGICAL RADAR

METEOROLOGICAL INSTRUMENTS  
 RADIOSONDES  
 RAWINSONDES  
 ROCKROONS  
 SKYHOOK BALLOONS  
 SOUNDING  
 TETHERED BALLOONS  
 UPPER ATMOSPHERE  
 WEATHER FORECASTING  
 METEOROLOGICAL CHARTS  
 2003  
 UP WEATHER CHARTS  
 WEATHER MAPS  
 BT #CHARTS  
 #MAPS  
 RT ISOBARS (PRESSURE)  
 RADAR MAPS  
 SYNOPTIC METEOROLOGY  
 METEOROLOGICAL FLIGHT  
 2003 2004 3009  
 RT AERIAL RECONNAISSANCE  
 BALLOON FLIGHT  
 FLIGHT  
 ICE REPORTING  
 METEOROLOGICAL BALLOONS  
 METEOROLOGICAL SATELLITES  
 ROCKET FLIGHT  
 SIRS B SATELLITE  
 SOUNDING  
 #SPACE FLIGHT  
 WEATHER FORECASTING  
 METEOROLOGICAL INSTRUMENTS  
 2002 2003 2004  
 RT BAROMETERS  
 CLOUD HEIGHT INDICATORS  
 DROPSONDES  
 ENDORADIOSONDES  
 RADIOHETEROGROGRAPHS  
 RADIOSONDES  
 RAIN GAGES  
 RAWINSONDES  
 WEATHER DATA RECORDERS  
 WIND VANES  
 BT #MEASURING INSTRUMENTS  
 RT ANEMOMETERS  
 HOT-FILM ANEMOMETERS  
 HOT-WIRE ANEMOMETERS  
 HUMIDITY MEASUREMENT  
 HYGROMETERS  
 HYPSONETERS  
 INSTRUMENTS  
 LIGHT SCATTERING METERS  
 #MEASURING INSTRUMENTS  
 METEOROLOGICAL BALLOONS  
 METEOROLOGICAL SATELLITES  
 #METEOROLOGY  
 NEPHEALYSIS  
 PSYCHROMETERS  
 #RECORDING INSTRUMENTS  
 ROCKET-BORNE INSTRUMENTS  
 SIRS B SATELLITE  
 SOUNDING ROCKETS  
 #TRANSDUCERS  
 WEATHER RECONNAISSANCE AIRCRAFT  
 WEATHER STATIONS  
 METEOROLOGICAL PARAMETERS  
 1902 2308 2403 2003  
 BT CONSTRAINTS  
 RT AEROLOGY  
 ANNUAL VARIATIONS  
 ATMOSPHERIC TURBULENCE  
 CEILINGS (METEOROLOGY)  
 CLOUD COVER  
 FRONTS (METEOROLOGY)  
 HUMIDITY  
 HYDROLOGY  
 ISOTHERMS  
 MOISTURE  
 PRECIPITATION (METEOROLOGY)  
 STORMS (METEOROLOGY)  
 TEMPERATURE INVERSIONS  
 TROPICAL METEOROLOGY  
 WEATHER  
 WIND MEASUREMENT  
 METEOROLOGICAL PROBS  
 USE SONDES  
 METEOROLOGICAL RADAR  
 2002 2003  
 UP WEATHER RADAR  
 BT #RADAR  
 RT PRECIPITATION PARTICLE MEASUREMENT  
 PULSE RADAR

# METEOROLOGICAL ROCKETS

RADAR SCANNING  
RADAR TRACKING  
RADIO METEOROLOGY  
SURVEILLANCE RADAR  
WEATHER FORECASTING  
METEOROLOGICAL ROCKETS  
USE SOUNDING ROCKETS  
METEOROLOGICAL SATELLITES  
2003 2004 3107  
BT AEROS SATELLITE  
COSMOS 144 SATELLITE  
DIRECT READOUT EQUATORIAL WEATHER  
SAT  
ELEKTRON 1 SATELLITE  
ELEKTRON 2 SATELLITE  
ELEKTRON 4 SATELLITE  
ELEKTRON SATELLITES  
ESSA 1 SATELLITE  
ESSA 2 SATELLITE  
ESSA 3 SATELLITE  
ESSA 4 SATELLITE  
ESSA 5 SATELLITE  
ESSA 6 SATELLITE  
ESSA 7 SATELLITE  
ESSA 8 SATELLITE  
ESSA 9 SATELLITE  
ESSA SATELLITES  
EXPLORER 9 SATELLITE  
EXPLORER 17 SATELLITE  
EXPLORER 19 SATELLITE  
NIMBUS 1 SATELLITE  
NIMBUS 2 SATELLITE  
NIMBUS 3 SATELLITE  
NIMBUS 4 SATELLITE  
NIMBUS 5 SATELLITE  
NIMBUS 6 SATELLITE  
NIMBUS SATELLITES  
SAN MARCO SATELLITE  
SAN MARCO 1 SATELLITE  
SAN MARCO 2 SATELLITE  
SIRS 8 SATELLITE  
SPUTNIK 1 SATELLITE  
SPUTNIK 2 SATELLITE  
SPUTNIK 3 SATELLITE  
SYNCHRONOUS METEOROLOGICAL  
SATELLITE  
TIROS 1 SATELLITE  
TIROS 2 SATELLITE  
TIROS 3 SATELLITE  
TIROS 4 SATELLITE  
TIROS 5 SATELLITE  
TIROS 6 SATELLITE  
TIROS 7 SATELLITE  
TIROS 8 SATELLITE  
TIROS 9 SATELLITE  
TIROS 10 SATELLITE  
TIROS SATELLITES  
VANGUARD 2 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT APPLICATIONS TECHNOLOGY SATELLITES  
CLOUD PHOTOGRAPHY  
GROPHYSICAL SATELLITES  
INFRARED PHOTOGRAPHY  
METEOROLOGICAL FLIGHT  
METEOROLOGICAL INSTRUMENTS  
#METEOROLOGY  
#MILITARY SPACECRAFT  
NAVIGATION SATELLITES  
NIMBUS PROJECT  
SATELLITE OBSERVATION  
SATELLITE TELEVISION  
SOUNDING ROCKETS  
SPACE PROBES  
TIROS PROJECT  
#UNMANNED SPACECRAFT  
VANGUARD SATELLITES  
WEATHER FORECASTING  
WEATHER STATIONS  
METEOROLOGICAL SERVICES  
2001 2003  
RT FLIGHT CONDITIONS  
WEATHER FORECASTING  
WEATHER STATIONS  
METEOROLOGICAL SOLENOIDS  
2002  
RT BAROCLINITY  
VORTICES  
METEOROLOGICAL STATIONS  
USE WEATHER STATIONS

#METEOROLOGY  
2003  
UF ATMOSPHERIC CONDITIONS  
BT AEROLOGY  
HYDROMETEOROLOGY  
LONG RANGE WEATHER FORECASTING  
MICROMETEOROLOGY  
NUCLEAR METEOROLOGY  
NUMERICAL WEATHER FORECASTING  
POLAR METEOROLOGY  
RADIO METEOROLOGY  
STATISTICAL WEATHER FORECASTING  
SYNOPTIC METEOROLOGY  
TROPICAL METEOROLOGY  
WEATHER FORECASTING  
BT AERONOMY  
AIR MASSES  
ANNUAL VARIATIONS  
ANTICYCLONES  
ATMOSPHERES  
ATMOSPHERIC DENSITY  
ATMOSPHERIC PHYSICS  
ATMOSPHERIC TURBULENCE  
BLATON FORMULA  
BRIGHTNESS TEMPERATURE  
CEILINGS (METEOROLOGY)  
CLIMATE  
CLIMATOLOGY  
CLOUD COVER  
CLOUDS (METEOROLOGY)  
CONVECTION  
CORIOLIS EFFECT  
CYCLONES  
ENVIRONMENTAL ENGINEERING  
FRONTS (METEOROLOGY)  
#GEOLOGY  
GEOPHYSICS  
HUMIDITY  
HURRICANES  
HYDRODYNAMIC EQUATIONS  
HYDROGRAPHY  
HYDROLOGY  
INSOLATION  
ISOTHERMS  
METEOROLOGICAL INSTRUMENTS  
METEOROLOGICAL SATELLITES  
METHOD OF CHARACTERISTICS  
MOISTURE  
NATIONAL SEVERE STORMS PROJECT  
NEPHANALYSIS  
OCEANOGRAPHY  
PRECIPITATION (METEOROLOGY)  
SCIENCE  
SEASONS  
STORMS (METEOROLOGY)  
#TEMPERATURE  
TEMPERATURE INVERSIONS  
TROPICAL REGIONS  
TROPICAL STORMS  
TYPHOONS  
WEATHER  
#WIND (METEOROLOGY)  
WIND MEASUREMENT  
METEORS  
USE METEOROLIDS  
METERS  
USE #MEASURING INSTRUMENTS  
METHACRYLATE RESINS  
USE ACRYLIC RESINS  
METHAMPHETAMINE  
0403 0405 1808  
BT #AMINES  
AMPHETAMINES  
#DRUGS  
METHANE  
0603 1808  
BT #ALIPHATIC COMPOUNDS  
ALKANES  
#HYDROCARBONS  
RT HYDROCARBON FUELS  
METHAPYRILENE  
1808  
BT #AMINES  
ANTIHISTAMINICS  
#DRUGS  
#HETEROCYCLIC COMPOUNDS  
PYRIDINES  
METHIONINE  
0603 1808  
BT #ACIDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS

# WASA THESAURUS (ALPHABETICAL LISTING)

METHOD OF CHARACTERISTICS  
1202 1902  
UF CHARACTERISTIC METHOD  
BT COMPRESSIBLE FLUIDS  
FLOW DISTRIBUTION  
HYPERBOLIC FUNCTIONS  
#METEOROLOGY  
PARTIAL DIFFERENTIAL EQUATIONS  
PLASTIC PROPERTIES  
PRANDTL-MEYER EXPANSION  
STEADY FLOW  
UNSTEADY FLOW  
METHODOLOGY  
0502 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF METHODS  
TECHNIQUES  
BT APPROXIMATION  
BIOT METHOD  
BRIDGMAN METHOD  
CRITICAL PATH METHOD  
CROCCO METHOD  
CZOCHELSKI METHOD  
DIGITAL TECHNIQUES  
EMERGENCY BREATHING TECHNIQUES  
ENCKE METHOD  
ENERGY METHODS  
FUJITA METHOD  
GALERKIN METHOD  
GERT  
HALPHEN METHOD  
HILL METHOD  
IMAGING TECHNIQUES  
JACOBI MATRIX METHOD  
LAUE METHOD  
LEAST SQUARES METHOD  
LEONARD WIRE METHOD  
LIGHTHILL METHOD  
MANAGEMENT METHODS  
MATRIX METHODS  
MAXWELL-MORR METHOD  
MILNE-THOMSON METHOD  
MOIRE EFFECTS  
MONTE CARLO METHOD  
NEWTON-RAPHSON METHOD  
PARTICLE IN CELL TECHNIQUE  
PERCUS METHOD  
PROBLEM SOLVING  
RAYLEIGH-RITZ METHOD  
RELAXATION METHOD (MATHEMATICS)  
RITZ AVERAGING METHOD  
RULER METHOD  
SCHMIDT METHOD  
SCHWARTZ METHOD  
STEEPEST DESCENT METHOD  
TRAVELING SOLVENT METHOD  
VON ZEIPPEL METHOD  
WING FLOW METHOD TESTS  
METHODS  
USE METHODOLOGY  
PROCEDURES  
METHOXY SYSTEMS  
0603 1808  
METHYL ALCOHOLS  
0603 1808  
BT ALCOHOLS  
#ALIPHATIC COMPOUNDS  
#HYDROXYL COMPOUNDS  
RT KARL FISCHER REAGENT  
METHYL CHLORIDE  
1808  
BT CHLORIDES  
METHYL CHLOROSILANES  
1808  
BT #ALIPHATIC COMPOUNDS  
HYDRIDES  
#HYDROGEN COMPOUNDS  
METHYL COMPOUNDS  
SILANES  
#SILICON COMPOUNDS  
METHYL COMPOUNDS  
0603 1808  
BT METHYL CHLOROSILANES  
METHYL NITRATE  
METHYLISOCYANATOSILANE  
BT #ALIPHATIC COMPOUNDS  
RT TRIMETHYL COMPOUNDS  
METHYL NITRATE  
1808  
BT #ALIPHATIC COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

ALKYL COMPOUNDS  
 METHYL COMPOUNDS  
 NITRATES  
 #NITROGEN COMPOUNDS  
 METHYL POLYSILOXANE  
 1808 1810  
 BT #SILICON POLYMERS  
 SILICONES  
 BT POLYMERS  
 #SILICON COMPOUNDS  
 METHYLATION  
 0403 0602  
 BT #CHEMICAL REACTIONS  
 RT ALKYLATION  
 METHYLENE  
 0603 1808  
 BT #HYDROCARBONS  
 METHYLENE BLUE  
 0601 1808  
 BT AZINES  
 DYES  
 #HETEROCYCLIC COMPOUNDS  
 #PYRAZINES  
 RT CHEMICAL ANALYSIS  
 CHEMICAL INDICATORS  
 INDICATORS  
 STAINING  
 METHYLENE DIAMINE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 #AMINES  
 METHYLHYDRAZINE  
 1808 2804  
 BT #ALIPHATIC COMPOUNDS  
 HYDRAZINES  
 RT DIMETHYLHYDRAZINES  
 METHYLISOCYANATOSILANE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 ALKYL COMPOUNDS  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
 METHYL COMPOUNDS  
 SILANES  
 #SILICON COMPOUNDS  
 METRAZOL  
 0405 0408  
 BT #DRUGS  
 METRIC PHOTOGRAPHY  
 1407  
 BT #PHOTOGRAPHY  
 METRIC SPACE  
 1902  
 NT HILBERT SPACE  
 BT #GEOMETRY  
 TOPOLOGY  
 RT BANACH SPACE  
 METROLOGY  
 1406 2311  
 BT INTERNATIONAL SYSTEM OF UNITS  
 MEASUREMENT  
 #MEASURING INSTRUMENTS  
 STANDARDS  
 UNITS OF MEASUREMENT  
 METROPOLITAN AIRCRAFT  
 USE CV-440 AIRCRAFT  
 MEXICO  
 1305  
 RT #NATIONS  
 NORTH AMERICA  
 HG-18 ENGINE  
 2808  
 BT #ENGINES  
 ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 SUSTAINER ROCKET ENGINES  
 MH-200 AIRCRAFT  
 0204  
 BT NORD AIRCRAFT  
 MH-260 AIRCRAFT  
 0204  
 UP MAX HOLSTE MH-260 AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 NORD AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPROP AIRCRAFT  
 PASSENGER AIRCRAFT  
 RT PASSENGER AIRCRAFT  
 MH-262 AIRCRAFT  
 0204  
 UP MAX HOLSTE MH-262 AIRCRAFT  
 NORD 262 AIRCRAFT

BT #JET AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 WORD AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPROP AIRCRAFT  
 PASSENGER AIRCRAFT  
 RT PASSENGER AIRCRAFT  
 MICA  
 1806  
 UP FLUOROMICA  
 NT BIOTITE  
 -MUSCOVITE  
 BT #MINERALS  
 RT IGNEOUS ROCKS  
 VERNICULITE  
 MICARTA  
 1504 1805 1808 1811 3202  
 BT #COMPOSITE MATERIALS  
 PHENOLIC RESINS  
 #PLASTICS  
 REINFORCED PLASTICS  
 #RESINS  
 SYNTHETIC RESINS  
 THERMOSETTING RESINS  
 RT FABRICS  
 INSULATION  
 POLYMERS  
 THERMOSETTING RESINS  
 MICE  
 0402  
 NT JERBOAS  
 POCKET MICE  
 BT #ANIMALS  
 MAMMALS  
 RODENTS  
 VERTEBRATES  
 RT RATS  
 MICHAEL REACTION  
 0602 1808  
 BT #CHEMICAL REACTIONS  
 MICHAELIS THEORY  
 0603 1808  
 RT THEORIES  
 MICHELL THEOREM  
 2308 3203  
 BT #THEOREMS  
 RT STRESS ANALYSIS  
 #STRUCTURAL ANALYSIS  
 MICHELSON INTERFEROMETERS  
 1405 2306 2310  
 BT INTERFEROMETERS  
 #MEASURING INSTRUMENTS  
 ASTROPHYSICS  
 RADIO ASTRONOMY  
 SPECTROMETERS  
 MICHIGAN  
 1305  
 BT UNITED STATES OF AMERICA  
 MICROANALYSIS  
 0601 0602 1002 2202  
 BT CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 RT ELECTRON MICROSCOPES  
 ELECTROPHOTOMETRY  
 MASS SPECTROMETERS  
 MATERIALS TESTS  
 NEUTRON ACTIVATION ANALYSIS  
 QUALITATIVE ANALYSIS  
 QUANTITATIVE ANALYSIS  
 SPECTROSCOPIC ANALYSIS  
 X RAY ANALYSIS  
 MICROBALANCES  
 0905 1406  
 UP MICROSCALES  
 BT INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 WEIGHT INDICATORS  
 MICROBE  
 USE #MICROORGANISMS  
 MICROBEAMS  
 1002 2304 2403  
 BT #BEAMS (RADIATION)  
 RT COLLIMATION  
 CRYSTALLOGRAPHY  
 X RAY ANALYSIS  
 MICROBIOLOGY  
 0404 0407  
 NT BACTERIOLOGY  
 RT BIOLOGY  
 CULTURE TECHNIQUES  
 MICROCALORIMETERS  
 USE CALORIMETERS

# MICROMETEOROID EXPLORER SATELLITES

MICROCHANNELS  
 1413 2306  
 RT #FREQUENCIES  
 IMAGE CONVERTERS  
 LIGHT AMPLIFIERS  
 NIGHT VISION  
 #OPTICAL EQUIPMENT  
 PHOTOCATHODES  
 ULTRAVIOLET RADIATION  
 MICROCIRCUITS  
 USE MICROELECTRONICS  
 MICROCLIMATOLOGY  
 2001 2003  
 BT CLIMATOLOGY  
 RT BIOCLIMATOLOGY  
 MICROMETEOROLOGY  
 MICROCRACKS  
 0602 3404  
 BT CRACKS  
 RT CRACK INITIATION  
 SURFACE CRACKS  
 MICROCRYSTALS  
 1002 2601  
 BT #CRYSTALS  
 RT CRYSTALLITES  
 SPHERULITES  
 MICROCYSTS  
 0404 0407 0409 0412  
 BT ALGAE  
 #MICROORGANISMS  
 #PLANTS (BOTANY)  
 RT #POLLUTION  
 MICRODENSITOMETERS  
 1411 2306 2310 2402  
 BT DENSITOMETERS  
 #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 BT GRAVIMETERS  
 OPTICAL DENSITY  
 #OPTICAL MEASUREMENT  
 PHOTOMETERS  
 MICROELECTRONICS  
 1001 1002  
 UP MICROCIRCUITS  
 NT LARGE SCALE INTEGRATION  
 MEDIUM SCALE INTEGRATION  
 RT #CIRCUITS  
 ELECTRONICS  
 MICROINSTRUMENTATION  
 MICROMINIATURIZATION  
 MICROMINIATURIZED ELECTRONIC  
 DEVICES  
 MICROMODULES  
 MOLECULAR ELECTRONICS  
 TRANSISTOR CIRCUITS  
 WAPERS  
 MICROFIBERS  
 1811  
 BT #FIBERS  
 MICROFILMS  
 1407 3401 3405  
 BT PHOTOGRAPHIC FILM  
 RT DATA RETRIEVAL  
 DATA STORAGE  
 MICROPHOTOGRAPHS  
 READERS  
 REPRODUCTION (COPYING)  
 MICROGRAPHY  
 USE PHOTOMICROGRAPHY  
 MICROHARDNESS  
 0407 1704 3203 3408  
 UP MICROINDENTATION  
 BT HARDNESS  
 #MECHANICAL PROPERTIES  
 RT KNOOP HARDNESS  
 ROCKWELL HARDNESS  
 MICROINDENTATION  
 USE MICROHARDNESS  
 MICROINSTRUMENTATION  
 0501 1402 1406 1410  
 RT #MEASURING INSTRUMENTS  
 MICROELECTRONICS  
 MICROMINIATURIZATION  
 MICROMANOMETERS  
 USE MANOMETERS  
 MICROMETEORITES  
 USE MICROMETEOROIDS  
 MICROMETEOROID EXPLORER SATELLITES  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES

# MICROMETEORIDS

EXPLODER SATELLITES  
#SATELLITES  
MICROMETEORIDS  
3005  
UF METEORITIC DUST  
MICROMETEORITES  
MICROMETEORS  
NT METEOROID DUST CLOUDS  
ZODIACAL DUST  
BT #CELESTIAL BODIES  
METEORIDS  
RT COSMIC DUST  
EXPLODER SATELLITES  
INTERPLANETARY DUST  
METEOR TRAILS  
METEORITES  
POINTING-ROBERTSON EFFECT  
SPACE DEBRIS  
TERRESTRIAL DUST BELT  
ZODIACAL LIGHT  
MICROMETEOROLOGY  
2001 2002  
BT #METEOROLOGY  
RT MICROCLIMATOLOGY  
#TURBULENCE  
MICROMETEORS  
USE MICROMETEORIDS  
MICROMETERS  
1406  
BT #MEASURING INSTRUMENTS  
RT DIMENSIONAL MEASUREMENT  
DISTANCE MEASURING EQUIPMENT  
MICROMILLIMETERS  
1406  
BT AMMETERS  
#MEASURING INSTRUMENTS  
RT #ELECTRIC CURRENT  
ELECTRICAL MEASUREMENT  
GALVANOMETERS  
MICROMINIATURIZATION  
1001 1002  
NT LARGE SCALE INTEGRATION  
BT #MINIATURIZATION  
RT BILITHIC CIRCUITS  
#CIRCUITS  
INTEGRATED CIRCUITS  
MICROELECTRONICS  
MICROINSTRUMENTATION  
MICROMINIATURIZED ELECTRONIC  
DEVICES  
MINIATURE ELECTRONIC EQUIPMENT  
MOLECULAR ELECTRONICS  
SEMICONDUCTOR DEVICES  
SUBMINIATURIZATION  
THICK FILMS  
THIN FILMS  
WAFERS  
MICROMINIATURIZED ELECTRONIC DEVICES  
0905 1002  
NT MICROMODULES  
RT MICROELECTRONICS  
MICROMINIATURIZATION  
MINIATURE ELECTRONIC EQUIPMENT  
MICROMODULES  
1002  
BT #ELECTRONIC EQUIPMENT  
ELECTRONIC MODULES  
MICROMINIATURIZED ELECTRONIC  
DEVICES  
#MODULES  
RT CONTAINERS  
ELECTRONIC PACKAGING  
MICROELECTRONICS  
MINIATURE ELECTRONIC EQUIPMENT  
MICROMOTORS  
0904 1002  
(EXCLUDES ROCKET ENGINES)  
BT ELECTRIC MOTORS  
#MOTORS  
#MICROORGANISMS  
0402 0407  
UF MICROBE  
NT ACTINOMYCETES  
ADENOVIRUSES  
AEROBES  
ANOXA  
ANAEROBES  
AZOTOBACTER  
BACILLUS  
BACTERIA  
BACTERIOPHAGES  
CLOSTRIDIUM BOTULINUM

COLPIDIA  
ESCHERICHIA  
FLAGELLATA  
HYDROGONOMONAS  
KLEBSIELLA  
MESOPHILES  
MICROCYSTIS  
MICROSPORES  
NITROBACTER  
PARAMECIA  
PELOMYXIA  
PROTOZOA  
PSEUDOMONAS  
PSYCHROPHILES  
ROTIFERA  
SALMONELLA  
SAPROPHYTES  
SARCINA  
SERRATIA  
SPORES  
STAPHYLOCOCCUS  
STEAROTHERMOPHILUS  
STREPTOCOCCUS  
STREPTOMYCETES  
TRYPANOSOME  
VIRUSES  
RT #ANIMALS  
ANTIBIOTICS  
GNOTOBIOTICS  
INVERTEBRATES  
#PLANTS (BOTANY)  
#POLLUTION  
VIRULENCE  
MICROPARTICLES  
2403  
BT #PARTICLES  
MICROPHONES  
0905 1413 2301  
UF PRESSURE MICROPHONES  
BT AUDIO EQUIPMENT  
ELECTROACOUSTIC TRANSDUCERS  
SOUND TRANSDUCERS  
RT #TRANSDUCERS  
HYDROPHONES  
INTERPHONES  
MONAURAL SIGNALS  
#TRANSMITTERS  
ULTRASONIC WAVE TRANSDUCERS  
MICROPHOTOGRAPHS  
1407 1412  
BT PHOTOGRAPHS  
RT DATA STORAGE  
MICROFILMS  
MICROPHOTOMETERS  
USE PHOTOMETERS  
MICROPLASMAS  
2501 2502  
BT #PLASMAS (PHYSICS)  
MICROPOROSITY  
1704 2601 3408  
BT POROSITY  
RT #MECHANICAL PROPERTIES  
METALLOGRAPHY  
MICROSTRUCTURE  
MICROPROGRAMMING  
0802  
BT COMPUTER PROGRAMMING  
RT PROGRAMMING  
MICROPULSATIONS  
1307 2307 2402  
UF TELLURIC CURRENT MICROPULSATIONS  
NT GEOMAGNETIC MICROPULSATIONS  
BT #PULSES  
RT #VARIATIONS  
MICROROCKET ENGINES  
3106  
BT #ENGINES  
ROCKET ENGINES  
RT ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
MICROTHRUST  
VERNIER ENGINES  
MICROSCALES  
USE MICROBALANCES  
MICROSCOPES  
1106 2310  
NT ELECTRON MICROSCOPES  
ION MICROSCOPES  
OPTICAL MICROSCOPES  
RT BINOCULARS  
EYEPIECES  
METALLOGRAPHY

# NASA THESAURUS (ALPHABETICAL LISTING)

MICROSCOPY  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
PHOTOMICROGRAPHY  
MICROSCOPY  
0501 1406 2310  
NT ULTRAVIOLET MICROSCOPY  
RT MICROSCOPES  
MICROTOMY  
PHASE CONTRAST  
PHOTOMICROGRAPHY  
MICROSEISMS  
1308  
BT #ELASTIC WAVES  
SEISMIC WAVES  
RT EARTHQUAKES  
MICROSONICS  
1202 2301 2312  
BT ACOUSTICS  
INFRASONIC FREQUENCIES  
RT ELASTIC PROPERTIES  
PIEZOELECTRIC CRYSTALS  
SOUND FIELDS  
SOUND WAVES  
#SURFACE WAVES  
MICROSPORES  
0404 0409  
BT #ANIMALS  
FUNGI  
INVERTEBRATES  
#MICROORGANISMS  
#PLANTS (BOTANY)  
SPORES  
MICROSTRUCTURE  
0407 1704 2601  
NT METEORITIC MICROSTRUCTURES  
WIDMANSTATTEN STRUCTURE  
RT AGING (MATERIALS)  
AGING (METALLURGY)  
AUSTENITE  
BAHNITE  
BAUSCHINGER EFFECT  
CASTING  
CASTINGS  
CEMENTITE  
CRYSTAL STRUCTURE  
CRYSTALLOGRAPHY  
FERRITES  
#HARDENING (MATERIALS)  
#HEAT TREATMENT  
HARTENSITE  
METALLOGRAPHY  
MICROPOROSITY  
ORDER-DISORDER TRANSFORMATIONS  
PEARLITE  
PHOTOMICROGRAPHY  
QUENCHING (COOLING)  
SPHERULITES  
STRUCTURES  
MICROTHRUST  
2802 2808  
BT LOW THRUST  
#THRUST  
RT JET THRUST  
LOW THRUST PROPULSION  
MICROROCKET ENGINES  
ROCKET THRUST  
VARIABLE THRUST  
MICROTOMY  
0404 0501 1504  
RT #MEDICAL EQUIPMENT  
MICROSCOPY  
MICROPOPOGRAPHY  
USE TERRAIN  
MICROTRONS  
2203 2204 2405  
BT CYCLOTRONS  
#PARTICLE ACCELERATORS  
RT BETATONS  
SYNCHROTRONS  
MICROVISION LANDING AID  
0501 0702 2310  
BT #DISPLAY DEVICES  
#LANDING AIDS  
MICROWAVE AMPLIFIERS  
0701 0705 0709  
BT #AMPLIFIERS  
RT CROSSED FIELD AMPLIFIERS  
MASERS  
PARAMETRIC AMPLIFIERS  
MICROWAVE ANTENNAS  
0701 0901 2309

# NASA THESAURUS (ALPHABETICAL LISTING)

BT ANTENNAS  
 #CONDUCTORS  
 #MICROWAVE EQUIPMENT  
 RT AIRCRAFT ANTENNAS  
 ANTENNA ARRAYS  
 DIRECTIONAL ANTENNAS  
 HELICAL ANTENNAS  
 MISSILE ANTENNAS  
 OMNIDIRECTIONAL ANTENNAS  
 PARABOLIC ANTENNAS  
 PARABOLIC REFLECTORS  
 RADAR ANTENNAS  
 WAVEGUIDE ANTENNAS  
 MICROWAVE ATTENUATION  
 0705 0904 2309 2402  
 RT MICROWAVE SCATTERING  
 WAVE PROPAGATION  
 MICROWAVE CIRCUITS  
 0902 2309  
 BT #CIRCUITS  
 RT MICROWAVE COUPLING  
 #MICROWAVE EQUIPMENT  
 MICROWAVE FILTERS  
 MICROWAVE OSCILLATORS  
 MICROWAVE RESONANCE  
 MICROWAVE TUBES  
 MICROWAVE COUPLING  
 0902 2304 2309  
 BT COUPLING  
 RT ANTENNA COUPLERS  
 CROSS COUPLING  
 DIRECTIONAL ANTENNAS  
 MICROWAVE CIRCUITS  
 OPTICAL COUPLING  
 #MICROWAVE EQUIPMENT  
 0705 0905 2309  
 RT GYRATORS  
 MICROWAVE ANTENNAS  
 MICROWAVE FILTERS  
 MICROWAVE INTERFEROMETERS  
 MICROWAVE OSCILLATORS  
 MICROWAVE PLASMA PROBES  
 MICROWAVE PROBES  
 MICROWAVE RADIO METERS  
 MICROWAVE TUBES  
 RT MICROWAVE CIRCUITS  
 MICROWAVE REFLECTOMETERS  
 MICROWAVE SPECTRA  
 MICROWAVE SWITCHING  
 MICROWAVE FILTERS  
 0902 0904 2309  
 BT #ELECTRIC FILTERS  
 ELECTROMAGNETIC WAVE FILTERS  
 GYRATORS  
 #MICROWAVE EQUIPMENT  
 RT BANDPASS FILTERS  
 DIGITAL FILTERS  
 #ELECTRIC FILTERS  
 HIGH PASS FILTERS  
 LOW PASS FILTERS  
 MICROWAVE CIRCUITS  
 MICROWAVE SPECTRA  
 RADAR FILTERS  
 RADIO FILTERS  
 RECTANGULAR GUIDES  
 WAVEGUIDE FILTERS  
 MICROWAVE FREQUENCIES  
 2309 2402  
 BT C BAND  
 EXTREMELY HIGH FREQUENCIES  
 P BAND  
 SUPERHIGH FREQUENCIES  
 BT #FREQUENCIES  
 RADIO FREQUENCIES  
 RT MICROWAVE RESONANCE  
 MICROWAVE SPECTRA  
 MICROWAVES  
 PRAETERSONIC DEVICES  
 MICROWAVE IMAGERY  
 0705  
 BT #IMAGERY  
 RT RADARSCOPES  
 MICROWAVE INTERFEROMETERS  
 1405 1406 2309  
 BT INTERFEROMETERS  
 #MEASURING INSTRUMENTS  
 #MICROWAVE EQUIPMENT  
 RT FABRY-PEROT INTERFEROMETERS  
 PLASMA DIAGNOSTICS  
 MICROWAVE OSCILLATORS  
 0904 1201 2309  
 RT BACKWARD WAVE TUBES

GAS DISCHARGE TUBES  
 BT #ELECTRON TUBES  
 #MICROWAVE EQUIPMENT  
 MICROWAVE TUBES  
 #OSCILLATORS  
 VACUUM TUBE OSCILLATORS  
 VACUUM TUBES  
 RT MICROWAVE CIRCUITS  
 MICROWAVE RESONANCE  
 MICROWAVE PHOTOGRAPHY  
 0705 0708 1407 1409 2003  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT RADAR DATA  
 RADAR PHOTOGRAPHY  
 RADARSCOPES  
 MICROWAVE PLASMA PROBES  
 1406 2309 2502  
 BT #MEASURING INSTRUMENTS  
 #MICROWAVE EQUIPMENT  
 MICROWAVE PROBES  
 RT ELECTRON PROBES  
 PLASMA FLUX MEASUREMENTS  
 PLASMA GUIDES  
 RESONANCE PROBES  
 MICROWAVE PROBES  
 1406 2309  
 RT MICROWAVE PLASMA PROBES  
 BT #MEASURING INSTRUMENTS  
 #MICROWAVE EQUIPMENT  
 RT RADIO FREQUENCY IMPEDANCE PROBES  
 MICROWAVE RADIATION  
 USE MICROWAVES  
 MICROWAVE RADIO METERS  
 1406 2309 2402  
 BT ACTINOMETERS  
 #MEASURING INSTRUMENTS  
 #MICROWAVE EQUIPMENT  
 RADIATION MEASURING INSTRUMENTS  
 RADIO METERS  
 MICROWAVE REFLECTOMETERS  
 1406 2309  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 REFLECTOMETERS  
 RT KINEMATICS  
 #MICROWAVE EQUIPMENT  
 MICROWAVE SCATTERING  
 MICROWAVE RESONANCE  
 0710 0902 2309 2402  
 BT #RESONANCE  
 RT CAVITY RESONATORS  
 HARMONIC ANALYSIS  
 MICROWAVE CIRCUITS  
 MICROWAVE FREQUENCIES  
 MICROWAVE OSCILLATORS  
 MICROWAVE TUBES  
 NONRESONANCE  
 MICROWAVE SCATTERING  
 0710 2309 2402  
 BT ELECTROMAGNETIC SCATTERING  
 #SCATTERING  
 WAVE SCATTERING  
 RT ATMOSPHERIC SCATTERING  
 MANDELSTAN REPRESENTATION  
 MICROWAVE ATTENUATION  
 MICROWAVE REFLECTOMETERS  
 MICROWAVE TRANSMISSION  
 SCATTEROMETERS  
 MICROWAVE SENSORS  
 0702 1409  
 BT INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 RT INSTRUMENTS  
 RADAR RECEIVERS  
 SENSORS  
 SIGNAL DETECTORS  
 MICROWAVE SPECTRA  
 2309 2402  
 UP INTERSTELLAR MICROWAVE SPECTRA  
 BT ELECTROMAGNETIC SPECTRA  
 RADIATION SPECTRA  
 RADIO SPECTRA  
 #SPECTRA  
 RT ABSORPTION SPECTRA  
 INFRARED SPECTRA  
 #MICROWAVE EQUIPMENT  
 MICROWAVE FILTERS  
 MICROWAVE FREQUENCIES  
 MICROWAVE TRANSMISSION  
 MOLECULAR ROTATION

# MIDAS 5 SATELLITE

MOLECULAR SPECTRA  
 MOLECULAR SPECTROSCOPY  
 MICROWAVE SWITCHING  
 0902 0904 2309  
 BT SWITCHING  
 RT FERROELECTRICITY  
 GYRATORS  
 #MICROWAVE EQUIPMENT  
 PHASE SHIFT  
 SWITCHING CIRCUITS  
 WAVEGUIDES  
 MICROWAVE TRANSMISSION  
 0701 2309 2402  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 RADIO TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 RT MICROWAVE SCATTERING  
 MICROWAVE SPECTRA  
 TELETYPEWRITER SYSTEMS  
 WAVE PROPAGATION  
 MICROWAVE TUBES  
 0905 2309 2402  
 RT MICROWAVE OSCILLATORS  
 BT #MICROWAVE EQUIPMENT  
 RT MICROWAVE CIRCUITS  
 MICROWAVE RESONANCE  
 TRIODES  
 TUBES  
 MICROWAVES  
 2309  
 UP MICROWAVE RADIATION  
 RT DECMETER WAVES  
 MILLIMETER WAVES  
 BT #ELECTROMAGNETIC RADIATION  
 RADIO WAVES  
 SHORT WAVE RADIATION  
 COSMIC NOISE  
 RT ELECTROMAGNETIC NOISE  
 EXTRATERRESTRIAL RADIO WAVES  
 INFRARED RADIATION  
 MICROWAVE FREQUENCIES  
 SCATTEROMETERS  
 SUBMILLIMETER WAVES  
 WHISTLERS  
 MICROWEIGHING  
 USE WEIGHT MEASUREMENT  
 MICTURITION  
 USE URINATION  
 MIDAIR COLLISIONS  
 0203 2101  
 BT COLLISIONS  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT ACCIDENTS  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY  
 COLLISION AVOIDANCE  
 #CRASHES  
 FLIGHT HAZARDS  
 FLIGHT SAFETY  
 PILOT ERROR  
 MIDAS 2 SATELLITE  
 1404 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 MIDAS SATELLITES  
 #MILITARY SPACECRAFT  
 #SATELLITES  
 MIDAS 3 SATELLITE  
 1404 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 MIDAS SATELLITES  
 #MILITARY SPACECRAFT  
 RECONNAISSANCE SPACECRAFT  
 #SATELLITES  
 MIDAS 4 SATELLITE  
 1404 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 MIDAS SATELLITES  
 #MILITARY SPACECRAFT  
 RECONNAISSANCE SPACECRAFT  
 #SATELLITES  
 MIDAS 5 SATELLITE  
 1404 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 MIDAS SATELLITES  
 #MILITARY SPACECRAFT  
 RECONNAISSANCE SPACECRAFT  
 #SATELLITES

# **NIDAS 6 SATELLITE**

## **NIDAS 6 SATELLITE**

1404 3107

BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
NIDAS SATELLITES  
#MILITARY SPACECRAFT  
RECONNAISSANCE SPACECRAFT  
#SATELLITES

## **NIDAS 7 SATELLITE**

0705 3107

BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
NIDAS SATELLITES  
#MILITARY SPACECRAFT  
RECONNAISSANCE SPACECRAFT  
#SATELLITES

## **NIDAS SATELLITES**

1404 3107 3401

BT NIDAS 2 SATELLITE  
NIDAS 3 SATELLITE  
NIDAS 4 SATELLITE  
NIDAS 5 SATELLITE  
NIDAS 6 SATELLITE  
NIDAS 7 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#MILITARY SPACECRAFT  
RECONNAISSANCE SPACECRAFT  
#SATELLITES

RT ATLAS AGENA B LAUNCH VEHICLE

## **MIDCOURSE GUIDANCE**

2102 2103

BT #GUIDANCE (MOTION)  
RT COMMAND GUIDANCE  
INERTIAL GUIDANCE  
INJECTION GUIDANCE  
RENDEZVOUS GUIDANCE  
SPACECRAFT GUIDANCE  
TERMINAL GUIDANCE  
TRANSEARTH INJECTION  
TRANSUNAR INJECTION

## **MIDCOURSE TRAJECTORIES**

1904 2102 2204 3101 3103 3105 3106 3108

BT #TRAJECTORIES  
RT ASCENT TRAJECTORIES  
BALLISTIC TRAJECTORIES  
COASTING FLIGHT  
DESCENT TRAJECTORIES  
PARABOLIC FLIGHT

## **MIDDLE EAR**

0404 0405 0408

BT #ANATOMY  
EAR  
SENSE ORGANS  
RT SEMICIRCULAR CANALS

## **MIDDLE EAR PRESSURE**

0404 0408

BT #PRESSURE  
MIDLATITUDE ATMOSPHERE  
1301 1302 1308 2003

BT #EARTH ATMOSPHERE

RT IONOSPHERE

SPORADIC E LAYER

## **MIDLATITUDES**

USE TEMPERATE REGIONS

## **MIE SCATTERING**

0710 1902 2402 2403

UF MIE THEORY  
RT RAYLEIGH SCATTERING  
BT ELECTROMAGNETIC SCATTERING  
#SCATTERING

WAVE SCATTERING

## **MIE THEORY**

USE MIE SCATTERING

## **MIGRATION**

0402 0408

RT BEHAVIOR

## **MIL AIRCRAFT**

0204 0206 0207

RT AIRCRAFT

## **MILIARIA**

0401 0404 0405

BT #DISEASES

## **MILITARY AIR FACILITIES**

1101 3401

UF AIRCRAFT BASES  
RT AIR TRAFFIC CONTROL  
AIRCRAFT CARRIERS  
AIRPORTS  
FIELDS  
HANGARS  
HELIPORTS

## **#LANDING AIDS**

## **#NAVIGATION AIDS**

## **#STATIONS**

## **MILITARY AIRCRAFT**

0206 0207 0209 3401

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UF CHANCE-VOUGHT MILITARY AIRCRAFT  
CONVAIR MILITARY AIRCRAFT  
MCDONNELL MILITARY AIRCRAFT  
BT A-37 AIRCRAFT  
AIRCRAFT CARRIERS  
AIRSHIPS  
ANTISUBMARINE WARFARE AIRCRAFT  
ARMED FORCES  
ATTACK AIRCRAFT  
ATTACKING (ASSAULTING)  
BOMBER AIRCRAFT  
CARGO AIRCRAFT  
DRONE AIRCRAFT  
FIGHTER AIRCRAFT  
PIREBEE 2 TARGET DRONE AIRCRAFT

## **#GLIDERS**

GROUND EFFECT MACHINES  
HARRIER AIRCRAFT  
HELICOPTERS  
JAGUAR AIRCRAFT

## **#JET AIRCRAFT**

LIGHT AIRCRAFT  
MILITARY HELICOPTERS  
NUCLEAR PROPELLED AIRCRAFT  
OBSERVATION AIRCRAFT  
PANAVIA MILITARY AIRCRAFT  
PASSENGER AIRCRAFT  
#PILOTLESS AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
ROTARY WING AIRCRAFT  
S-3 AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
SUBMERSIBLE AIRCRAFT  
TAILLESS AIRCRAFT  
TANKER AIRCRAFT  
TARGET DRONE AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TRAINING AIRCRAFT  
#TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
#WEAPON SYSTEMS

## **MILITARY AVIATION**

0206 0207 3401

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

## **RT ARMED FORCES**

## **MILITARY COMPACT REACTORS**

2201 2204 3401

## **UF MCR REACTORS**

BT LIQUID COOLED REACTORS  
LIQUID METAL COOLED REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS

## **MILITARY HELICOPTERS**

0206 0207 3401

## **NT**

CH-3 HELICOPTER  
CH-34 HELICOPTER  
CH-46 HELICOPTER  
CH-47 HELICOPTER  
CH-54 HELICOPTER  
H-43 HELICOPTER  
H-53 HELICOPTER  
H-56 HELICOPTER  
HH-43 HELICOPTER  
OH-4 HELICOPTER  
OH-5 HELICOPTER  
OH-6 HELICOPTER  
OH-13 HELICOPTER  
OH-23 HELICOPTER  
QH-50 HELICOPTER  
S-61 HELICOPTER  
SA-330 HELICOPTER  
SA-3210 HELICOPTER  
SH-34 HELICOPTER  
UH-1 HELICOPTER  
UH-2 HELICOPTER  
UH-34 HELICOPTER  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT

# **NASA THESAURUS (ALPHABETICAL LISTING)**

BT ATTACK AIRCRAFT  
MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT

## **MILITARY PSYCHIATRY**

USE MILITARY PSYCHOLOGY  
MILITARY PSYCHOLOGY  
0408 0410 3401 3402

## **UF MILITARY PSYCHIATRY**

BT #PSYCHOLOGY  
RT PSYCHIATRY  
#PSYCHOLOGICAL EFFECTS  
PSYCHOLOGICAL TESTS  
PSYCHOMETRICS

## **#MILITARY SPACECRAFT**

3110 3401

BT INSPECTOR SATELLITE  
NIDAS 2 SATELLITE  
NIDAS 3 SATELLITE  
NIDAS 4 SATELLITE  
NIDAS 5 SATELLITE  
NIDAS 6 SATELLITE  
NIDAS 7 SATELLITE  
NIDAS SATELLITES  
PHOTO RECONNAISSANCE SPACECRAFT  
RECONNAISSANCE SPACECRAFT  
VELA SATELLITES  
RT AEROSPACEPLANES  
ARTIFICIAL SATELLITES  
ASTROPLANE  
EARTH SATELLITES  
EVASIVE SATELLITES

#MANNED SPACECRAFT  
METEOROLOGICAL SATELLITES  
MILITARY VEHICLES  
NAVIGATION SATELLITES  
RECOVERABLE SPACECRAFT  
RENDEZVOUS SPACECRAFT  
SATELLITE NETWORKS  
#SATELLITES  
SPACE STATIONS  
SPACE SURVEILLANCE (SPACEBORNE)  
SPACECRAFT  
SYNCHRONOUS SATELLITES  
#UNMANNED SPACECRAFT  
#WEAPON SYSTEMS

## **MILITARY TECHNOLOGY**

3401 3404

RT ANTIMISSILE DEFENSE  
ANTISUBMARINE WARFARE  
ARMY-NAVY INSTRUMENTATION PROGRAM  
BALLISTIC MISSILE EARLY WARNING  
SYSTEM  
DEFENSE COMMUNICATIONS SYSTEM (DCS)  
DEFENSE INDUSTRY  
DEFENSE PROGRAM  
FIELD ARMY BALLISTIC MISSILE  
DEFENSE SYS  
INTELLIGENCE  
INTERSERVICE DATA EXCHANGE PROGRAM  
LOGISTICS OVER THE SHORE (LOTS)  
CARRIER  
MISSILE DEFENSE  
SAFEGUARD SYSTEM  
TACTICS  
#WEAPONS

## **WEAPONS INDUSTRY**

## **MILITARY VEHICLES**

0207 1102 3401

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT AIRCRAFT CARRIERS  
AMBULANCES  
AMPHIBIOUS VEHICLES  
AUTOMOBILES  
BOATS  
#MILITARY SPACECRAFT  
RECOVERY VEHICLES  
RESEARCH VEHICLES  
SHIPS  
SUBMARINES  
TRUCKS  
UNDERWATER VEHICLES  
#WATER VEHICLES

## **MILK**

0402 0505 0507

RT BEVERAGES

FOOD

## **MILKY WAY GALAXY**

3001

BT #CELESTIAL BODIES  
GALAXIES

# NASA THESAURUS (ALPHABETICAL LISTING)

SPIRAL GALAXIES  
 RT RADIO SOURCES (ASTRONOMY)  
 STARS  
 MILLIMETER WAVES  
 0705 2402  
 BT #ELECTROMAGNETIC RADIATION  
 MICROWAVES  
 RADIO WAVES  
 SHORT WAVE RADIATION  
 RT BEAM PLASMA AMPLIFIERS  
 C BAND  
 DECIMETER WAVES  
 ELECTROMAGNETIC NOISE  
 EXTRATERRESTRIAL RADIO WAVES  
 EXTREMELY HIGH FREQUENCIES  
 #FREQUENCIES  
 SOLAR RADIO EMISSION  
 SUBMILLIMETER WAVES  
 WAVELENGTHS  
 MILLING  
 1504 1704 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COMMINUTION  
 COMPOUNDING  
 MILLING (MACHINING)  
 MILLING (MACHINING)  
 1504 1704  
 BT CUTTING  
 #MACHINING  
 RT CHEMICAL MACHINING  
 GROOVING  
 METAL CUTTING  
 MILLING  
 MILLING MACHINES  
 PLANING  
 PLANNING  
 MILLING (MIXING)  
 USE COMPOUNDING  
 MILLING MACHINES  
 1504 3404  
 BT MACHINE TOOLS  
 #TOOLS  
 RT GRINDING MACHINES  
 MILLING (MACHINING)  
 SHAPERS  
 MILLIVOLTMETERS  
 1406 2304  
 BT #MEASURING INSTRUMENTS  
 VOLTMETERS  
 RT GALVANOMETERS  
 MILLS RATIO  
 1902 1905  
 BT #RATIOS  
 RT FAILURE  
 FAILURE ANALYSIS  
 LIFE (DURABILITY)  
 MORTALITY  
 PROBABILITY DENSITY FUNCTIONS  
 #STATISTICAL ANALYSIS  
 MILNE METHOD  
 1902 1903  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT DIFFERENTIAL EQUATIONS  
 MILNE-THOMSON METHOD  
 1202 1809 3203  
 RT INCOMPRESSIBLE FLOW  
 METHODOLOGY  
 NAVIER-STOKES EQUATION  
 VISCOUS FLOW  
 MINE DETECTORS  
 1409 3302 3401  
 BT #WARNING SYSTEMS  
 RT DETECTORS  
 WARNING  
 MINER RULE  
 USE PALMGREN-MINER RULE  
 MINERAL DEPOSITS  
 1305 1306 1308 1806  
 RT EARTH RESOURCES  
 EXCAVATION  
 #GEOLOGY  
 MINERALOGY  
 #MINERALS  
 MINES (EXCAVATIONS)  
 MINING  
 RESERVES  
 MINERAL OILS  
 0405 1806 1808  
 BT OILS

RT LUBRICATING OILS  
 MINERALOGY  
 1306 1308  
 RT CRYSTALLOGRAPHY  
 GEOCHEMISTRY  
 #GEOLOGY  
 MINERAL DEPOSITS  
 #MINERALS  
 PETROLOGY  
 #MINERALS  
 1306 1806  
 UP APATITES  
 OCTAHEDRITE  
 ORES  
 NT AKERMANITE  
 ALUMINUM SILICATES  
 AMPHIBOLES  
 ANDESITE  
 ARAGONITE  
 ASBESTOS  
 BARITE  
 BASTNASITE  
 BERYL  
 BIOTITE  
 BRUCITE  
 CALCITE  
 CALCIUM SILICATES  
 CHROMITES  
 COESITE  
 COHENITE  
 CORDIERITE  
 CRYOLITE  
 DOLOMITE (MINERAL)  
 ENSTATITE  
 EUXENITE  
 FAYALITE  
 FELDSPARS  
 FLUORITE  
 FLUOROSILICATES  
 FLUORPHLOGOPIE  
 FLUORSPAR  
 FORSTERITE  
 GARNETS  
 GEhlenite  
 HEMATITE  
 HEXAHEDRITE  
 HODGKINSONITE  
 ILLITE  
 ILMENITE  
 IRON ORES  
 KANACITE  
 KAOLINITE  
 LIMONITE  
 MAGNETITE  
 MERRINITE  
 MICA  
 MONAZITE SANDS  
 MONTICELLITE  
 MONTHORILLONITE  
 MUSCOVITE  
 NEPHELINE  
 NEPHELINE  
 NOBERGITE  
 OSSIDIAN GLASS  
 OLIVINE  
 PEROVSKITES  
 POTASSIUM SILICATES  
 PROUSTITE  
 PYRITES  
 PYROPHYLLITE  
 PYROXENES  
 SCHEELITE  
 SCHREIBERSITE  
 SERPENTINE  
 SIDERITES  
 SILICATES  
 SODIUM SILICATES  
 SPINEL  
 SPODUMENE  
 SPURRITE  
 TALC  
 TOURMALINE  
 TROILITE  
 WURTZITE  
 YTTRIUM-ALUMINUM GARNET  
 YTTRIUM-IRON GARNET  
 ZINCBLENDE  
 RT ANATASE  
 BAUXITE  
 BENEFICIATION  
 BIOGEOCHEMISTRY  
 CALCIUM SILICATES

## MINIMAX TECHNIQUE

CRYSTALLITES  
 DIORITE  
 DUNITE  
 EARTH RESOURCES  
 #GEOLOGY  
 GRAPHITE  
 IGNEOUS ROCKS  
 LAVA  
 LIMESTONE  
 LUNAR SOIL  
 MINERAL DEPOSITS  
 MINERALOGY  
 MULLITES  
 NUTRIENTS  
 PYRRHOTITE  
 QUARTZ  
 ROCKS  
 RUTILE  
 SHALES  
 #SOILS  
 VERMICULITE  
 ZEOLITES  
 MINES  
 1306 1806 3401  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT MINES (EXCAVATIONS)  
 MINES (ORDNANCE)  
 MINES (EXCAVATIONS)  
 1306  
 UP QUARRIES  
 RT CORE SAMPLING  
 DRAINAGE  
 EXPLOITATION  
 #EXPLORATION  
 MATERIALS HANDLING  
 MINERAL DEPOSITS  
 MINES  
 MINING  
 PITS (EXCAVATIONS)  
 RESERVES  
 STRATIGRAPHY  
 SUBSIDENCE  
 UNDERGROUND EXPLOSIONS  
 UNDERGROUND STORAGE  
 WASTE DISPOSAL  
 MINES (ORDNANCE)  
 3302 3401  
 BT #WEAPONS  
 RT AMMUNITION  
 MINES  
 MINIATURE ELECTRONIC EQUIPMENT  
 0903 0905 1002  
 RT #CIRCUITS  
 ELECTRIC EQUIPMENT  
 ELECTRONIC MODULES  
 EQUIPMENT  
 MICROMINIATURIZATION  
 MICROMINIATURIZED ELECTRONIC  
 DEVICES  
 MICROMODULES  
 #MINIATURIZATION  
 MOLECULAR ELECTRONICS  
 PRINTED CIRCUITS  
 SOLID STATE DEVICES  
 SUBMINIATURIZATION  
 THIN FILMS  
 #MINIATURIZATION  
 0902 1002  
 RT MICROMINIATURIZATION  
 SUBMINIATURIZATION  
 RT #CIRCUITS  
 MINIATURE ELECTRONIC EQUIPMENT  
 PRINTED CIRCUITS  
 PRINTED RESISTORS  
 TRANSISTORS  
 WAPERS  
 MINIMA  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 EXTREMUM VALUES  
 REAL VARIABLES  
 RT CUSPS (MATHEMATICS)  
 DIFFERENTIAL CALCULUS  
 MAXIMA  
 OPERATIONS RESEARCH  
 #OPTIMIZATION  
 #RANGE (EXTREMES)  
 STEEPEST DESCENT METHOD  
 MINIMAX TECHNIQUE  
 1902 3406

# MINIMIZATION

BT GAME THEORY  
OPERATIONS RESEARCH  
#RESEARCH  
RT APPROXIMATION  
CURVE FITTING  
MINIMIZATION  
USE #OPTIMIZATION  
MINIMUM DRAG  
0101 0201 1202 1203  
BT DRAG  
#DYNAMIC CHARACTERISTICS  
RT AIRCRAFT PERFORMANCE  
FRICTION DRAG  
MINIMUM VARIANCE ORBIT DETERMINATION  
0802 1902 3006  
UP MINIVAR ORBIT DETERMINATION  
BT #CLASSICAL MECHANICS  
#COMPUTATION  
ORBIT CALCULATION  
ORBITAL MECHANICS  
SPACE MECHANICS  
RT #STATISTICAL ANALYSIS  
MINING  
1806 3404  
RT CLAYS  
EXCAVATION  
EXPLOITATION  
MINERAL DEPOSITS  
MINES (EXCAVATIONS)  
MINITRACK OPTICAL TRACKING SYSTEM  
USE MINITRACK SYSTEM  
MINITRACK SYSTEM  
0705 0709 1109  
UP MINITRACK OPTICAL TRACKING SYSTEM  
NOTS (TRACKING SYSTEM)  
RT GLOBAL TRACKING NETWORK  
OPTICAL TRACKING  
SATELLITE TRACKING  
SPACE DETECTION AND TRACKING SYSTEM  
SPACE SURVEILLANCE (GROUND BASED)  
SPACECRAFT TRACKING  
STADAN (SATELLITE TRACKING NETWORK)  
SYSTEMS  
TRACKING NETWORKS  
TRACKING STATIONS  
TRACKS  
MINIVAR ORBIT DETERMINATION  
USE MINIMUM VARIANCE ORBIT  
DETERMINATION  
MINKOWSKI SPACE  
1902  
RT PEYNNAN DIAGRAMS  
PROBABILITY THEORY  
SPACE-TIME FUNCTIONS  
MINNESOTA  
1305  
BT UNITED STATES OF AMERICA  
MINOR CIRCLE TURNING FLIGHT  
2102 3009  
BT TURNING FLIGHT  
MINORITIES  
3402 3403  
RT ANTHROPOLOGY  
#COMMUNITIES  
CULTURE (SOCIAL SCIENCES)  
NATIONS  
RACES  
SOCIOLOGY  
VOTING  
MINORITY CARRIERS  
1002 2302 2602  
BT CHARGE CARRIERS  
RT #ADDITIVES  
CARRIER INJECTION  
ELECTRON MOBILITY  
ELECTRONS  
HOLES (ELECTRON DEFICIENCIES)  
SEMICONDUCTORS (MATERIALS)  
MINOS COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
MINUTEMAN ICBM  
3101 3401  
UP MINUTEMAN MISSILES  
BT BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
#MISSILES  
SURFACE TO SURFACE MISSILES  
RT M-55 ENGINE  
M-56 ENGINE  
M-57 ENGINE

MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES  
SPACE WEAPONS  
TU-122 ENGINE  
MINUTEMAN MISSILES  
USE MINUTEMAN ICBM  
MIOSIS  
0404 0406  
BT MYOPIA  
RT EYE (ANATOMY)  
OPHTHALMOLOGY  
TETRAD THEORY  
VISION  
MIRAGE 3 AIRCRAFT  
0207  
UP DASSAULT MIRAGE 3 AIRCRAFT  
BT DASSAULT AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TAILLESS AIRCRAFT  
MIROS SYSTEM  
2306 2310  
UP MODULATING RETRODIRECTIVE OPTICS  
BT LIGHT MODULATION  
#MODULATION  
RT OPTICAL MEASURING INSTRUMENTS  
MIRROR POINT  
1409 2310 2402  
RT MAGNETIC MIRRORS  
RADIATION BELTS  
MIRRORS  
1412 2306 2310  
NT CELESTROSCOPES  
FRESNEL REFLECTORS  
MAGNETIC MIRRORS  
PARABOLOID MIRRORS  
ROTATING MIRRORS  
RT CASSEGRAIN OPTICS  
COLLIMATORS  
#OPTICAL EQUIPMENT  
OPTICS  
REFLECTING TELESCOPES  
#REFLECTORS  
SOLAR COLLECTORS  
SOLAR REFLECTORS  
SPECULAR REFLECTION  
#TELESCOPES  
MIS (SEMICONDUCTORS)  
0603 1704 1804 2602  
UP METAL INSULATOR SEMICONDUCTORS  
BT #ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SEMICONDUCTORS (MATERIALS)  
SOLID STATE DEVICES  
MISALIGNMENT  
3408  
(INCLUDES PSYCHOLOGICAL DISORIENTATION)  
UP MISORIENTATION  
RT DISORIENTATION  
MISCIBILITY  
USE SOLUBILITY  
MISPIRES  
USE FAILURE  
#FIRING (IGNITING)  
MISHATCH  
USE IMPEDANCE MATCHING  
MISORIENTATION  
USE MISALIGNMENT  
MISS DISTANCE  
2101 2102 3401  
BT DISTANCE  
RT ACCURACY  
AIR TO SURFACE MISSILES  
MISSILE ANTENNAS  
0701 0702 0901 3101  
BT ANTENNAS  
#CONDUCTORS  
MISSILE COMPONENTS  
RT AIRCRAFT ANTENNAS  
DIRECTIONAL ANTENNAS  
MICROWAVE ANTENNAS  
MISSILE BODIES  
0101 0201 2806 3101  
UP MISSILE CASES  
BT MISSILE COMPONENTS  
RT AIRFRAMES  
AXISYMMETRIC BODIES  
BLUNT BODIES  
BODIES

# NASA THESAURUS (ALPHABETICAL LISTING)

CASES (CONTAINERS)  
FINNED BODIES  
MISSILE CONFIGURATIONS  
MISSILE STRUCTURES  
ROCKET ENGINE CASES  
SLENDER BODIES  
STREAMLINED BODIES  
MISSILE CASES  
USE MISSILE BODIES  
MISSILE COMPONENTS  
0101 2806 3101  
NT MISSILE ANTENNAS  
MISSILE BODIES  
RT #ENGINES  
FINS  
NOSE CONES  
WARHEADS  
WINGS  
MISSILE CONFIGURATIONS  
0101 3101  
NT SANDPIPER TARGET MISSILE  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT CONFIGURATIONS  
CONFIGURATIONS  
HAMMERHEAD CONFIGURATION  
LAUNCH VEHICLE CONFIGURATIONS  
MISSILE BODIES  
MISSILE DESIGN  
MISSILE STRUCTURES  
#MISSILES  
MULTIENGINE VEHICLES  
PROPULSION SYSTEM CONFIGURATIONS  
ROCKET ENGINES  
#ROCKET VEHICLES  
MISSILE CONSTRUCTION  
USE MISSILE STRUCTURES  
MISSILE CONTROL  
0101 2102 3101  
UP MISSILE GUIDANCE  
MISSILE ROLL CONTROL  
MISSILE STABILIZATION  
RT ACTUATORS  
ANALOG COMPUTERS  
#ATTITUDE CONTROL  
#AUTOMATIC CONTROL  
AUTOMATIC FLIGHT CONTROL  
CONTROL  
DIRECTIONAL CONTROL  
#FLIGHT CONTROL  
#GROUND BASED CONTROL  
HOMING  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
#MISSILES  
RADIO CONTROL  
REMOTE CONTROL  
ROCKET ENGINE CONTROL  
#SPACECRAFT CONTROL  
STAR TRACKERS  
THRUST VECTOR CONTROL  
VISUAL CONTROL  
MISSILE DEFENSE  
3101 3401  
(SYSTEMS DESIGNED TO PROTECT MISSILES  
AGAINST ATTACK)  
RT ANTIMISSILE DEFENSE  
ANTIMISSILE MISSILES  
BALLISTIC MISSILE DECOYS  
DEFENSE  
DEFENSE INDUSTRY  
DEFENSE PROGRAM  
HARDENING (SYSTEMS)  
MILITARY TECHNOLOGY  
#MISSILES  
REENTRY DECOYS  
SAFEGUARD SYSTEM  
MISSILE DEFENSE SYSTEMS  
USE MISSILE SYSTEMS  
MISSILE DESIGN  
0201 3101 3404  
RT AEROSPACE ENGINEERING  
AIRCRAFT DESIGN  
COMPUTERIZED DESIGN  
DESIGN  
DEVELOPMENT  
ENGINE DESIGN  
FLIGHT TESTS  
MAGNUS EFFECT  
MISSILE CONFIGURATIONS  
MISSILE STRUCTURES  
MISSILE SYSTEMS  
RELIABILITY



NASA THESAURUS (ALPHABETICAL LISTING)

#MISSILES

STRUCTURAL DESIGN  
SYSTEMS ENGINEERING  
MISSILE DETECTION  
0705 0709 3101 3401  
BT #DETECTION  
RT #EARLY WARNING SYSTEMS  
IDENTIFYING  
MISSILE SIGNATURES  
TARGET ACQUISITION  
TARGET RECOGNITION  
MISSILE ENGINE CASES  
USE ROCKET ENGINE CASES  
MISSILE GUIDANCE  
USE MISSILE CONTROL  
MISSILE LAUNCHERS  
1104 3101 3102 3103  
RT MOBILE MISSILE LAUNCHERS  
BT #LAUNCHERS  
RT BALLISTIC MISSILE SUBMARINES  
CATAPULTS  
GROUND SUPPORT EQUIPMENT  
GUN LAUNCHERS  
#LAUNCH VEHICLES  
#LAUNCHING  
LAUNCHING SITES  
MISSILE SILOS  
#MISSILES  
ROCKET LAUNCHERS  
SEA LAUNCHING  
#WEAPON SYSTEMS  
MISSILE RANGES  
1108 3101  
(EXCLUDES DISTANCE OF MISSILE TRAVEL)  
UP MISSILE TEST RANGES  
BT DISTANCE  
#RANGES (FACILITIES)  
#TEST FACILITIES  
TEST RANGES  
RT BALLISTIC RANGES  
DOWNRANGE  
HYPERSONIC TEST APPARATUS  
#MISSILES  
RANGE SAFETY  
REENTRY RANGE  
MISSILE ROLL CONTROL  
USE LATERAL CONTROL  
MISSILE CONTROL  
MISSILE SIGNATURES  
0705 0709 3101 3401  
BT RADAR SIGNATURES  
#SIGNATURES  
RT #DETECTION  
MISSILE DETECTION  
SIGNATURE ANALYSIS  
TARGET RECOGNITION  
MISSILE SILOS  
1102 1103 3401  
UP SILOS (MISSILE STORAGE)  
RT BUILDINGS  
LAUNCHING SITES  
MISSILE LAUNCHERS  
MISSILE STORAGE  
STORAGE  
MISSILE SIMULATION (MATH MODELS)  
USE MATHEMATICAL MODELS  
#MISSILES  
MISSILE SIMULATORS  
1107 1110 3101  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COMPUTERIZED SIMULATION  
FLIGHT SIMULATORS  
MATHEMATICAL MODELS  
#MISSILES  
#SIMULATORS  
TRAINING SIMULATORS  
WIND TUNNEL MODELS  
MISSILE SIMULATORS (TRAINING)  
USE #MISSILES  
TRAINING SIMULATORS  
MISSILE STABILIZATION  
USE MISSILE CONTROL  
STABILIZATION  
MISSILE STAGING  
USE #MISSILES  
STAGE SEPARATION  
MISSILE STORAGE  
1102 1103 3101  
RT GROUND SUPPORT EQUIPMENT  
MISSILE SILOS  
MOBILE MISSILE LAUNCHERS  
PROPELLANT STORAGE  
STORAGE  
UNDERGROUND STORAGE  
MISSILE STRUCTURES  
0102 3101 3106  
UP MISSILE CONSTRUCTION  
RT AIRFRAMES  
MISSILE BODIES  
MISSILE CONFIGURATIONS  
MISSILE DESIGN  
MISSILE VIBRATION  
STRUCTURES  
TAIL ASSEMBLIES  
MISSILE SYSTEMS  
0201 3101 3401  
UP MISSILE DEFENSE SYSTEMS  
RT NIKE X SYSTEMS  
SAFEGUARD SYSTEM  
BT #WEAPON SYSTEMS  
RT AEROSPACE SYSTEMS  
MISSILE DESIGN  
MOBILE MISSILE LAUNCHERS  
SYSTEMS  
MISSILE TEST LABORATORIES  
USE #LABORATORIES  
MISSILE TESTS  
MISSILE TEST RANGES  
USE MISSILE RANGES  
MISSILE TESTS  
1108 3101  
UP MISSILE TEST LABORATORIES  
RT #CAPTIVE TESTS  
ENGINE TESTS  
FLIGHT TESTS  
FUEL TESTS  
#GROUND TESTS  
#MISSILES  
PRELAUNCH TESTS  
PROPELLANT TESTS  
STABILITY TESTS  
STATIC TESTS  
TEST FIRING  
TEST VEHICLES  
TESTS  
WIND TUNNEL STABILITY TESTS  
MISSILE TRACKING  
0709 1109 3101  
BT #TRACKING (POSITION)  
RT BALLISTIC MISSILE DECOYS  
INFRARED TRACKING  
POLYSTATION DOPPLER TRACKING SYSTEM  
RANGE AND RANGE RATE TRACKING  
SPACE DETECTION AND TRACKING SYSTEM  
SPACECRAFT TRACKING  
TRACKING NETWORKS  
TRACKING STATIONS  
MISSILE TRAJECTORIES  
2102 3006 3101  
BT #TRAJECTORIES  
RT ASCENT TRAJECTORIES  
BALLISTIC TRAJECTORIES  
DESCENT TRAJECTORIES  
FLIGHT MECHANICS  
FLIGHT PATHS  
IMPACT PREDICTION  
PARABOLIC FLIGHT  
REENTRY TRAJECTORIES  
SPINNING UNGUIDED ROCKET TRAJECTORY  
UNDERWATER TRAJECTORIES  
MISSILE VIBRATION  
0201 2308 3101  
BT STRUCTURAL VIBRATION  
#VIBRATION  
RT BENDING VIBRATION  
BREATHING VIBRATION  
FLUTTER  
LINEAR VIBRATION  
MISSILE STRUCTURES  
RANDOM VIBRATION  
SELF INDUCED VIBRATION  
SUPERSONIC FLUTTER  
TORSIONAL VIBRATION  
TRANSONIC FLUTTER  
MISSILE WINGS  
USE LOW ASPECT RATIO WINGS  
#MISSILES  
3101 3106 3401  
UP GUIDED MISSILES  
MISSILE SIMULATION (MATH MODELS)  
MISSILE SIMULATORS (TRAINING)  
MISSILE STAGING  
MISSILERY  
RT AIR TO AIR MISSILES  
AIR TO SURFACE MISSILES  
ANTELOPE MISSILE  
ANTI-AIRCRAFT MISSILES  
ANTI-MISSILE MISSILES  
ANTI-TANK MISSILES  
ATLAS D ICBM  
ATLAS E ICBM  
ATLAS F ICBM  
ATLAS G ICBM  
ATLAS ICBM  
ATLAN MISSILES  
AUTOMET MISSILE  
BALLISTIC MISSILES  
BLUE GOOSE MISSILE  
BLUE STEEL MISSILE  
BLUE STREAK MISSILE  
BOMARC A MISSILE  
BOMARC B MISSILE  
BOMARC MISSILES  
BUMBLEBEE PROJECT  
CHAPARRAL MISSILE  
CONDOR MISSILE  
CORPORAL MISSILE  
CORVUS MISSILE  
CRUISE MISSILES  
FALCON MISSILE  
FIELD ARMY BALLISTIC MISSILES  
FLEET BALLISTIC MISSILES  
HAWK MISSILE  
ROUND DOG MISSILE  
INTERCONTINENTAL BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC  
MISSILES  
JUPITER MISSILE  
LACROSSE MISSILE  
LANCER MISSILE  
MATRA MISSILE  
MAULER MISSILE  
MAVERICK MISSILES  
MINUTEMAN ICBM  
NAVAHO MISSILE  
NIKE-AJAX MISSILE  
NIKE-HERCULES MISSILE  
NIKE MISSILES  
NIKE-ZEUS MISSILE  
OSPREY MISSILE  
PERSHING MISSILE  
POLARIS A1 MISSILE  
POLARIS A2 MISSILE  
POLARIS A2A MISSILE  
POLARIS A3 MISSILE  
POLARIS MISSILES  
POSEIDON MISSILES  
QUAIL MISSILE  
RAMJET MISSILES  
REDEYE MISSILE  
REGULUS MISSILE  
SANDPIPER TARGET MISSILE  
SEACAT MISSILE  
SEASLUG MISSILE  
SERGEANT MISSILES  
SHILLELAGH MISSILES  
SHORT RANGE BALLISTIC MISSILES  
SIDEWINDER MISSILES  
SKYBOLT MISSILE  
SLAM SUPERSONIC LOW ALTITUDE  
MISSILE  
SPARROW 2 MISSILE  
SPARROW 3 MISSILE  
SPARROW MISSILES  
SPRINT MISSILE  
SS-11 MISSILE  
SUBROC MISSILE  
SURFACE TO AIR MISSILES  
SURFACE TO SURFACE MISSILES  
TALOS MISSILE  
TARTAR MISSILE  
TERBER MISSILE  
THUNDERBIRD MISSILE  
TITAN ICBM  
TITAN 1 ICBM  
TITAN 2 ICBM  
V-1 MISSILE  
V-2 MISSILE  
WHITE LANCE MISSILE  
RT AMMUNITION  
ANTI-MISSILE DEFENSE  
ARTILLERY  
ASCENT PROPULSION SYSTEMS  
AUXILIARY PROPULSION

# MISSILE

BOMBS (ORDNANCE)  
 FLIGHT TEST VEHICLES  
 FLIGHT VEHICLES  
 GROUND SUPPORT EQUIPMENT  
 #GUIDANCE (MOTION)  
 HOMING DEVICES  
 HYPERSONIC FLIGHT  
 INCENDIARY AMMUNITION  
 #LAUNCH VEHICLES  
 LAUNCHING SITES  
 MISSILE CONFIGURATIONS  
 MISSILE CONTROL  
 MISSILE DEFENSE  
 MISSILE LAUNCHERS  
 MISSILE RANGES  
 MISSILE SIMULATORS  
 MISSILE TESTS  
 MULTIEENGINE VEHICLES  
 NIKE X SYSTEMS  
 NUCLEAR WEAPONS  
 PLASMA SHEATHS  
 #PROPULSION  
 REENTRY  
 #REENTRY VEHICLES  
 ROCKET CATAPULTS  
 ROCKET ENGINES  
 ROCKET PROPELLANTS  
 ROCKETS  
 SCRAM  
 SPACECRAFT LAUNCHING  
 SPIN STABILIZATION  
 STAGE SEPARATION  
 SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 SUPERSONIC FLIGHT  
 TERMINAL BALLISTICS  
 TEST VEHICLES  
 TORPEDOES  
 #TRAJECTORIES  
 #TRANSPORTATION  
 VEHICLES  
 WARHEADS  
 #WEAPON SYSTEMS  
 #WEAPONS  
 WINGED VEHICLES  
 MISSILE  
 USE #MISSILES  
 MISSION PLANNING  
 3401 3406 3409  
 BT PLANNING  
 RT BUDGETING  
 CRITICAL PATH METHOD  
 ESTIMATING  
 #FORECASTING  
 #MANAGEMENT  
 MANAGEMENT PLANNING  
 MISSIONS  
 OPERATIONS  
 OPERATIONS RESEARCH  
 PLANS  
 #PREDICTIONS  
 #PROGRAMS  
 PROJECT MANAGEMENT  
 SCHEDULING  
 MISSIONS  
 3004 3007 3104  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ABORTED MISSIONS  
 EARTH-VENUS TRAJECTORIES  
 EXPEDITIONS  
 FLYBY MISSIONS  
 GRAND TOURS  
 MISSION PLANNING  
 PLANNING  
 #PROGRAMS  
 PROJECT PLANNING  
 PROJECTS  
 #SPACE FLIGHT  
 SPACE MISSIONS  
 #TARGETS  
 MISSISSIPPI  
 1305  
 BT UNITED STATES OF AMERICA  
 MISSOURI  
 1305  
 BT UNITED STATES OF AMERICA  
 MIST  
 1301 2001  
 (ATMOSPHERIC WATER)  
 BT #PARTICLES

BT AEROSOLS  
 DISPERSIONS  
 FOG  
 HAZE  
 PRECIPITATION (METEOROLOGY)  
 MITOCHONDRIA  
 0403 0406  
 BT #CELLS (BIOLOGY)  
 PYRIMIDINES  
 RT CYTOLOGY  
 MITOSIS  
 0404 0406  
 BT #CELLS (BIOLOGY)  
 CHROMOSOMES  
 CYTOLOGY  
 CYTOPLASM  
 MUTATIONS  
 PHYSIOLOGY  
 REPRODUCTION  
 MITRA  
 0402 0404 0409  
 RT FUNGI  
 MIXED CRYSTALS  
 1704 2601 2603  
 BT #CRYSTALS  
 RT POWDER METALLURGY  
 SINTERING  
 MIXED FLOW  
 USE MULTIPHASE FLOW  
 MIXERS  
 0602 1202 1504 3404  
 (EXCLUDES MIXING CIRCUITS)  
 BT ADMIXTURES  
 AERATION  
 AEROSOLS  
 AGITATION  
 BAPPLES  
 BLOWERS  
 CARBURETORS  
 COALESCING  
 CONTACTORS  
 DIFFUSERS  
 DISPERSION  
 FEEDERS  
 GRINDING MILLS  
 MIXING  
 #MIXTURES  
 PADDLES  
 PLOWS  
 PLUNGERS  
 #SEPARATORS  
 SHAKERS  
 SPRAYERS  
 STIRRING  
 TUMBLING MOTION  
 MIXING  
 0602 0603 1202 1504 3404  
 NT COLLOIDING  
 COMPOUNDING  
 DISSOLVING  
 HOMOGENIZING  
 LAMINAR MIXING  
 SIGNAL MIXING  
 SUSPENDING (MIXING)  
 TURBULENT MIXING  
 RT AERATION  
 AGITATION  
 BLOWING  
 CHOKES  
 #DIFFUSION  
 DILUTION  
 GRINDING (COMMINUTION)  
 JET MIXING FLOW  
 LIQUID INJECTION  
 METAL POWDER  
 MIXERS  
 #MIXTURES  
 PREMIXED FLAMES  
 SEPARATION  
 SHAKING  
 SPRAYING  
 SWIRLING  
 TANGLING  
 #TURBULENCE  
 VORTICES  
 MIXING CIRCUITS  
 1001  
 BT #CIRCUITS  
 RT FREQUENCY CONVERTERS  
 FREQUENCY SYNTHESIZERS  
 HETERODYNING  
 PREAMPLIFIERS

# NASA THESAURUS (ALPHABETICAL LISTING)

MIXING LENGTH FLOW THEORY  
 1202 1203  
 BT FLOW THEORY  
 #KINETIC THEORY  
 TRANSPORT THEORY  
 RT SHEAR FLOW  
 TURBULENT FLOW  
 TURBULENT MIXING  
 VORTICITY TRANSPORT HYPOTHESIS  
 #MIXTURES  
 0603 1701 1704 1805 2701 2702  
 UF BLENDS  
 NT ADMIXTURES  
 AEROSOLS  
 AQUEOUS SOLUTIONS  
 BINARY FLUIDS  
 BINARY MIXTURES  
 COLLOIDAL PROPELLANTS  
 COLLOIDS  
 DETONABLE GAS MIXTURES  
 DISPERSIONS  
 EMULSIONS  
 EUTECTIC ALLOYS  
 EUTECTICS  
 FOG  
 GAS MIXTURES  
 LIQUID-GAS MIXTURES  
 METAL MATRIX COMPOSITES  
 NUCLEAR EMULSIONS  
 PHOTOGRAPHIC EMULSIONS  
 PLASTISOLS  
 SLURRIES  
 SMOKE  
 SOLID SOLUTIONS  
 SOLID SUSPENSIONS  
 SOLUTIONS  
 RT #ALLOYS  
 AZEOTROPES  
 #COMPOSITE MATERIALS  
 #COMPOSITION (PROPERTY)  
 FORMULATIONS  
 INGREDIENTS  
 MIXERS  
 MIXING  
 SOLUBILITY  
 ML-1 NUCLEAR POWER PLANT  
 2202 2204  
 BT #ELECTRIC POWER PLANTS  
 #NUCLEAR ELECTRIC POWER GENERATION  
 NUCLEAR POWER PLANTS  
 RT POWER PLANTS  
 #NEUMONICS  
 0408 0410 0502 0503  
 RT MEMORY  
 NOMENCLATURES  
 SYMBOLIC PROGRAMMING  
 SYMBOLS  
 MOBILE LOUNGES  
 0506 1101 1102 1104  
 UF AIRPORT MOBILE LOUNGES  
 RT AIRFIELD SURFACE MOVEMENTS  
 AIRPORTS  
 GROUND HANDLING  
 LOUNGES  
 MOBILE MISSILE LAUNCHERS  
 1104 3001 3102  
 BT #LAUNCHERS  
 MISSILE LAUNCHERS  
 RT BALLISTIC MISSILE SUBMARINES  
 MISSILE STORAGE  
 MISSILE SYSTEMS  
 #WEAPON SYSTEMS  
 MOBILE QUARANTINE FACILITY  
 1102  
 RT AEROSPACE MEDICINE  
 EVACUATING (TRANSPORTATION)  
 FACILITIES  
 #MEDICAL EQUIPMENT  
 MEDICAL SERVICES  
 PHYSICAL EXAMINATIONS  
 PHYSIOLOGICAL TESTS  
 MOBILITY  
 2502 2602  
 (EXCLUDES CONSIDERATIONS OF MANNED AND  
 UNMANNED CRAFT)  
 NT ATOMIC MOBILITIES  
 ELECTRON MOBILITY  
 HOLE MOBILITY  
 IONIC MOBILITY  
 RT CONDUCTIVITY  
 DIFFUSIVITY  
 DRIFT RATE

# NASA THESAURUS (ALPHABETICAL LISTING)

HALL EFFECT  
 #KINETIC THEORY  
 PORTABLE EQUIPMENT  
 #TRANSPORT PROPERTIES  
 MODAL RESPONSE  
 0101 1001 1202 2308 2311 3203  
 UP MODE SHAPES  
 BT #RESPONSES  
 RT DYNAMIC RESPONSE  
 STROKING TESTS  
 MODE  
 0710 1808 1905  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT MODE (STATISTICS)  
 #MODES  
 MODE (STATISTICS)  
 1902 3406  
 RT AVERAGE  
 DISTRIBUTION MOMENTS  
 MEAN  
 MEDIAN (STATISTICS)  
 MODE  
 #MODES  
 #MOMENTS  
 QUALITY CONTROL  
 MODE OF VIBRATION  
 USE VIBRATION MODE  
 MODE SHAPES  
 USE MODAL RESPONSE  
 MODE TRANSFORMERS  
 0904 2304  
 BT #TRANSFORMERS  
 TRANSFORMERS  
 RT IMPEDANCE MATCHING  
 PROPAGATION MODES  
 #TRANSMISSION LINES  
 VIBRATION MODE  
 WAVEGUIDE TUNERS  
 #MODELS  
 0804 1106 1107 1108 1902  
 NT AIRCRAFT MODELS  
 ASTRONOMICAL MODELS  
 ATMOSPHERIC MODELS  
 BREADBOARD MODELS  
 DIGITAL SIMULATION  
 DYNAMIC MODELS  
 ENVIRONMENT MODELS  
 GUTENBERG ZONE  
 LIGHTHILL GAS MODEL  
 MATHEMATICAL MODELS  
 NUCLEAR MODELS  
 REFERENCE ATMOSPHERES  
 SCALE MODELS  
 SEMISPAN MODELS  
 SPACECRAFT MODELS  
 THOMAS-FERMI MODEL  
 VECTOR DOMINANCE MODEL  
 WIND TUNNEL MODELS  
 RT ANALOGS  
 DUMMIES  
 LAYOUTS  
 PILOT PLANTS  
 REPLICAS  
 #SIMULATORS  
 #TEST FACILITIES  
 MODERATION (ENERGY ABSORPTION)  
 0408 0603 2405 3303 3408  
 NT NEUTRON THERMALIZATION  
 THERMALIZATION (ENERGY ABSORPTION)  
 BT #ENERGY ABSORPTION  
 RT MODERATORS  
 MODERATORS  
 0603 2203 2405  
 RT BERYLLIUM  
 GRAPHITE  
 HEAVY WATER  
 MODERATION (ENERGY ABSORPTION)  
 NEUTRON ABSORBERS  
 #NUCLEAR REACTORS  
 REACTOR MATERIALS  
 WATER  
 #MODES  
 1601 1905 2306 2310 3203  
 NT COUPLED MODES  
 LASER MODES  
 MODES (STANDING WAVES)  
 PROPAGATION MODES  
 UNCOUPLED MODES  
 VIBRATION MODE  
 RT MODE

MODE (STATISTICS)  
 MODES (STANDING WAVES)  
 0710 2308 3203  
 BT #MODES  
 RT UNCOUPLED MODES  
 #VIBRATION  
 MODIFICATION  
 USE REVISIONS  
 MODIFIERS  
 USE #ADDITIVES  
 MODULAR RATIOS  
 1704 1902 3203 3204  
 BT #MECHANICAL PROPERTIES  
 #RATIOS  
 RT #COMPOSITE MATERIALS  
 STRESS RATIO  
 #STRUCTURAL ANALYSIS  
 STRUCTURAL ENGINEERING  
 MODULATED CONTINUOUS RADIATION  
 0705 0710 1002 1404 1601  
 BT CONTINUOUS RADIATION  
 #ELECTROMAGNETIC RADIATION  
 RT COHERENT ELECTROMAGNETIC RADIATION  
 PHASE DEVIATION  
 MODULATING RETRODIRECTIVE OPTICS  
 USE MIROS SYSTEM  
 #MODULATION  
 0702 0710 1001 1002 1902  
 UP CARRIER MODULATION  
 NT AMPLITUDE MODULATION  
 DELTA MODULATION  
 FEEDBACK FREQUENCY MODULATION  
 FM/PM (MODULATION)  
 FREQUENCY MODULATION  
 FREQUENCY SHIFT KEYING  
 INTERMODULATION  
 IONOSPHERIC CROSS MODULATION  
 LIGHT MODULATION  
 MIROS SYSTEM  
 PHASE MODULATION  
 PHASE SHIFT KEYING  
 PULSE AMPLITUDE MODULATION  
 PULSE CODE MODULATION  
 PULSE DURATION MODULATION  
 PULSE FREQUENCY MODULATION  
 PULSE FREQUENCY MODULATION  
 TELEMETRY  
 PULSE MODULATION  
 PULSE POSITION MODULATION  
 PULSE TIME MODULATION  
 TRAVELING WAVE MODULATION  
 ULTRASONIC LIGHT MODULATION  
 VELOCITY MODULATION  
 RT CARRIER FREQUENCIES  
 CARRIER WAVES  
 CRYSTALLIZATION  
 DEMODULATION  
 DEMODULATORS  
 DOUBLE SIDEBAND TRANSMISSION  
 INTERFERENCE FACTOR TABLE  
 MODULATORS  
 P.A.C.M. TELEMETRY  
 RADIO TRANSMISSION  
 REMODULATION  
 SELECTIVE FADING  
 #TELECOMMUNICATION  
 WAVE INTERACTION  
 MODULATORS  
 0702 0902 0904 1601  
 RT #AMPLIFIERS  
 AMPLITUDE MODULATION  
 DEMODULATORS  
 #ELECTRON TUBES  
 FREQUENCY MODULATION  
 LIGHT MODULATION  
 #MODULATION  
 PHASE MODULATION  
 PULSE MODULATION  
 #MODULES  
 0903 0905 3004 3007 3110  
 NT AIRLOCK MODULES  
 APOLLO LUNAR EXPERIMENT MODULE  
 COMMAND MODULES  
 COMMAND SERVICE MODULES  
 ELECTRONIC MODULES  
 LANDING MODULES  
 LOCAL SCIENTIFIC SURVEY MODULE  
 LUNAR LANDING MODULES  
 LUNAR MODULE  
 LUNAR MODULE 5  
 LUNAR MODULE 7  
 MARS EXCURSION MODULE

# HOLD

MICROMODULES  
 SERVICE MODULES  
 SPACECRAFT MODULES  
 RT #CIRCUITS  
 #COMPARTMENTS  
 COMPONENTS  
 INSTRUMENT PACKAGES  
 SPACE TUGS  
 SPARE PARTS  
 MODULI  
 USE #RATIOS  
 MODULUS OF ELASTICITY  
 3203 3204  
 UP COMPLIANCE (ELASTICITY)  
 ELASTIC MODULUS  
 YOUNG MODULUS  
 NT DYNAMIC MODULUS OF ELASTICITY  
 BT ELASTIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 RT ANELASTICITY  
 BENDING  
 HOOKES LAW  
 HYDROELASTICITY  
 POISSON RATIO  
 PROPORTIONAL LIMIT  
 RIGIDITY  
 SHEAR PROPERTIES  
 STIFFNESS  
 STRESS-STRAIN DIAGRAMS  
 MOHAWK AIRCRAFT  
 USE OV-1 AIRCRAFT  
 MOHR CIRCLES  
 USE FRACTURE MECHANICS  
 MOIRE EFFECTS  
 2306 2310 2601  
 RT BEAT FREQUENCIES  
 BIREFRINGENCE  
 DIFFRACTION  
 INTERFERENCE GRATING  
 METHODOLOGY  
 PHOTOELASTIC ANALYSIS  
 SCHLIEREN PHOTOGRAPHY  
 MOISTURE  
 0603 2001 2003  
 RT HUMIDITY  
 #METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 MOISTURE CONTENT  
 MOISTURE METERS  
 WATER  
 WATER VAPOR  
 MOISTURE CONTENT  
 0603 2001 2003 3404  
 UP DAMPNESS  
 WATER CONTENT  
 WETNESS  
 NT ATMOSPHERIC MOISTURE  
 BT #COMPOSITION (PROPERTY)  
 CONCENTRATION (COMPOSITION)  
 RT ATMOSPHERIC COMPOSITION  
 #CHEMICAL PROPERTIES  
 HUMIDITY  
 HYGROSCOPICITY  
 MOISTURE  
 MOISTURE METERS  
 WATER  
 WATER VAPOR  
 MOISTURE DETECTORS  
 USE MOISTURE METERS  
 MOISTURE METERS  
 0603 1406 2001 2002 2003  
 UP MOISTURE DETECTORS  
 NT HYGROMETERS  
 PSYCHROMETERS  
 BT #MEASURING INSTRUMENTS  
 RT CHEMICAL ANALYSIS  
 HUMIDITY  
 HUMIDITY MEASUREMENT  
 MOISTURE  
 MOISTURE CONTENT  
 MOL (ORBITAL LABORATORIES)  
 USE MANNEB ORBITAL LABORATORIES  
 MOLABS  
 USE LUNAR MOBILE LABORATORIES  
 MOLD  
 1504 1704 1805 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FUNGI  
 MOLDS  
 RHIZOPUS

# **MOLDAVITE**

## **MOLDAVITE**

1704 1806  
 BT IGNEOUS ROCKS  
 OBSIDIAN  
 ROCKS  
 RT GLASS  
 METEORITES  
**MOLDING MATERIALS**  
 1704 3404  
 RT #BINDERS (MATERIALS)  
 CASTING  
 CLAYS  
 CORES  
 MATERIALS  
 MOLDS  
 PLASTERS  
 #PLASTICS  
 SANDS  
 TENITE

**MOLDS**  
 1504 1704 1805 3404 3407  
 (EXCLUDES ORGANISMS)

RT ASPERGILLUS  
 CASTING  
 CASTINGS  
 DIES  
 POUNDRIES  
 INGOTS  
 MANDRELS  
 MELTING  
 MOLD  
 MOLDING MATERIALS  
 ORGANIC MATERIALS  
 PATTERNS  
 PREFORMS  
 PRESSING (FORMING)  
 PUNCHES  
 TABLETS  
 TEMPLATES

**MOLECULAR ABSORPTION**  
 0602 0603 1203 2404  
 BT ELECTROMAGNETIC ABSORPTION  
 #ENERGY ABSORPTION  
 #RADIATION ABSORPTION  
 RT ATMOSPHERIC ATTENUATION  
 BEER LAW  
 LIGHT TRANSMISSION  
 MOLECULAR ENERGY LEVELS  
 MOLECULAR SPECTRA  
 MOLECULAR SPECTROSCOPY

**MOLECULAR BEAMS**  
 0603 1203 2404 2502  
 BT #BEAMS (RADIATION)  
 NEUTRAL BEAMS  
 PARTICLE BEAMS  
 RT ATOMIC BEAMS  
 ATOMIC CLOCKS  
 FREE MOLECULAR FLOW  
 ION BEAMS  
 MOLECULAR COLLISIONS  
 MOLECULAR INTERACTIONS  
 MOLECULAR TRAJECTORIES  
 #MOLECULES  
 RAREFIED GAS DYNAMICS

**MOLECULAR BIOLOGY**  
 0403 0404  
 BT LIFE SCIENCES  
 RT BIOCHEMISTRY  
 BIOLOGY  
 PHYSIOCHEMISTRY

**MOLECULAR BONDS**  
 USE CHEMICAL BONDS

**MOLECULAR CHAINS**  
 0603 1808 1809 2404  
 RT CHAINS  
 #CRYSTAL LATTICES  
 MONOMERS

**MOLECULAR COLLISIONS**  
 0603 1203 2404  
 BT COLLISIONS  
 MOLECULAR INTERACTIONS  
 #PARTICLE INTERACTIONS  
 RT ATOMIC COLLISIONS  
 INTERACTIONS  
 MOLECULAR BEAMS  
 MOLECULAR DIFFUSION  
 MOLECULAR ENERGY LEVELS  
 MOLECULAR OSCILLATIONS  
 MOLECULAR TRAJECTORIES  
 PARTICLE COLLISIONS

**MOLECULAR DIFFUSION**  
 0406 0602 1203 2404

BT #DIFFUSION  
 RT ATMOSPHERIC DIFFUSION  
 DIFFUSION COEFFICIENT  
 DIFFUSION WAVES  
 DISSOCIATION  
 GASEOUS DIFFUSION  
 GASEOUS SELF-DIFFUSION  
 MOLECULAR COLLISIONS  
 MOLECULAR FLOW  
 MOLECULAR INTERACTIONS  
 MOLECULAR WEIGHT  
 PARTICLE DIFFUSION  
 SURFACE DIFFUSION  
**MOLECULAR DISSOCIATION**  
 USE DISSOCIATION  
**MOLECULAR ELECTRONICS**  
 1002 1204  
 RT LARGE SCALE INTEGRATION  
 MEDIUM SCALE INTEGRATION  
 BT #ELECTROPHYSICS  
 RT ELECTRONICS  
 INTEGRATED CIRCUITS  
 MICROELECTRONICS  
 MICROMINIATURIZATION  
 MINIATURE ELECTRONIC EQUIPMENT  
 MONOMOLECULAR FILMS  
 PI-ELECTRONICS  
 SEMICONDUCTOR DEVICES  
 THIN FILMS

**MOLECULAR ENERGY LEVELS**  
 2311 2404 3304  
 RT INTERMOLECULAR FORCES  
 BT ENERGY LEVELS  
 #LEVEL (QUANTITY)  
 RT CHEMICAL ENERGY  
 ENERGY  
 ENERGY OF FORMATION  
 FREE ENERGY  
 HEAT OF SOLUTION  
 INTERNAL ENERGY  
 MOLECULAR ABSORPTION  
 MOLECULAR COLLISIONS  
 MOLECULAR INTERACTIONS  
 MOLECULAR TRAJECTORIES  
 NUCLEAR ENERGY

**MOLECULAR EXCITATION**  
 2401 2403  
 BT #EXCITATION  
 RT ATOMIC EXCITATIONS  
 ENERGY LEVELS  
 #IONIZATION  
 PARTICLE COLLISIONS

**MOLECULAR FLOW**  
 1202 1203 2404  
 (FLOW WITH KNUDSEN NUMBERS GREATER  
 THAN 0.01--FOR SPECIFIC FLOWS IN THIS  
 RANGE USE NARROWER TERMS--FOR DUCTED  
 MOLECULAR FLOW USE KNUDSEN FLOW)  
 RT SLIP FLOW  
 TRANSITION FLOW  
 BT #FLUID FLOW  
 GAS FLOW  
 RT BOUNDARY LAYER TRANSITION  
 CONTINUUM FLOW  
 KNUDSEN FLOW  
 LOW DENSITY FLOW  
 MOLECULAR DIFFUSION  
 MOLECULAR INTERACTIONS  
 MOLECULAR PUMPS  
 RAREFIED GAS DYNAMICS  
 TRANSPIRATION

**MOLECULAR GASES**  
 0603 1203 2404  
 RT DIATOMIC GASES  
 POLAR GASES  
 POLYATOMIC GASES  
 BT #GASES  
 RT GAS DYNAMICS  
 MOLECULAR PUMPS  
 MONATOMIC GASES  
 NONPOLAR GASES  
 RAREFIED GASES  
 REAL GASES

**MOLECULAR INTERACTIONS**  
 0602 1202 1203 2404  
 RT MOLECULAR COLLISIONS  
 BT #PARTICLE INTERACTIONS  
 RT DISSOCIATION  
 INTERACTIONS  
 INTERMOLECULAR FORCES  
 IONIC REACTIONS  
 MASS FLOW

# **NASA THESAURUS (ALPHABETICAL LISTING)**

MOLECULAR BEAMS  
 MOLECULAR DIFFUSION  
 MOLECULAR ENERGY LEVELS  
 MOLECULAR FLOW  
 MOLECULAR ORBITALS  
 MOLECULAR OSCILLATIONS  
 MOLECULAR PHYSICS  
 MOLECULAR PUMPS  
 MOLECULAR RELAXATION  
 MOLECULAR THEORY  
 TRANSPORT THEORY  
**MOLECULAR IONS**  
 0603 1804 2404  
 BT #IONS  
 RT MOLECULAR PHYSICS  
**MOLECULAR ORBITALS**  
 2401 2404  
 BT ORBITALS  
 WAVE FUNCTIONS  
 RT MOLECULAR INTERACTIONS  
 QUANTUM THEORY  
 SELF CONSISTENT FIELDS  
**MOLECULAR OSCILLATIONS**  
 1203 2404 2501 2601  
 BT #OSCILLATIONS  
 RT ARGON LASERS  
 CARBON DIOXIDE LASERS  
 CARBON MONOXIDE LASERS  
 GAS LASERS  
 MOLECULAR COLLISIONS  
 MOLECULAR INTERACTIONS  
 MOLECULAR PUMPS  
 MOLECULAR RELAXATION  
 MOLECULAR ROTATION  
 MOLECULAR SPECTRA  
 MOLECULAR TRAJECTORIES  
**MOLECULAR OSCILLATORS**  
 0905 1203 1601 2404  
 BT #OSCILLATORS  
 RT LASERS  
 MASERS  
 MOLECULAR RELAXATION  
**MOLECULAR PHYSICS**  
 2404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT INTERNUCLEAR PROPERTIES  
 MAYER PROBLEM  
 MOLECULAR INTERACTIONS  
 MOLECULAR IONS  
 MOLECULAR THEORY  
 MONATOMIC MOLECULES  
**MOLECULAR PUMPS**  
 1203 1501 2404  
 BT #PUMPS  
 #VACUUM APPARATUS  
 VACUUM PUMPS  
 RT MOLECULAR FLOW  
 MOLECULAR GASES  
 MOLECULAR INTERACTIONS  
 MOLECULAR OSCILLATIONS  
 PUMP SEALS  
**MOLECULAR RELAXATION**  
 1203 2404  
 UP CHEMICAL RELAXATION  
 VIBRATIONAL RELAXATION  
 RT GAS FLOW  
 MOLECULAR INTERACTIONS  
 MOLECULAR OSCILLATIONS  
 MOLECULAR OSCILLATIONS  
 POPULATION INVERSION  
 RELAXATION  
 RELAXATION (MECHANICS)  
 RELAXATION TIME  
 SHOCK WAVES  
 THERMODYNAMICS  
 VIBRATION DAMPING  
 VIBRATIONAL SPECTRA  
**MOLECULAR ROTATION**  
 2308 2401 2404  
 BT #GYRATION  
 ROTATION  
 RT MICROWAVE SPECTRA  
 MOLECULAR OSCILLATIONS  
 RAMAN SPECTRA  
**MOLECULAR SIEVES**  
 USE ABSORBENTS  
**MOLECULAR SPECTRA**  
 0601 0603 1411 2402 2404  
 RT ELECTRONIC SPECTRA  
 RAMAN SPECTRA

# NASA THESAURUS (ALPHABETICAL LISTING)

VIBRATIONAL SPECTRA  
BT #SPECTRA  
RT ABSORPTION SPECTRA  
ELECTROMAGNETIC SPECTRA  
EMISSION SPECTRA  
ENERGY SPECTRA  
INFRARED SPECTRA  
MASS SPECTRA  
MICROWAVE SPECTRA  
MOLECULAR ABSORPTION  
MOLECULAR OSCILLATIONS  
MOLECULAR STRUCTURE  
OXYGEN SPECTRA  
SOLAR SPECTRA  
STELLAR SPECTRA  
SWAN BANDS  
ULTRAVIOLET SPECTRA  
VEGARD-KAPLAN BANDS  
MOLECULAR SPECTROSCOPY  
0602 1411 2404  
BT #SPECTROSCOPY  
RT ABSORPTION SPECTRA  
EMISSION SPECTRA  
INFRARED SPECTROSCOPY  
LINE SPECTRA  
MICROWAVE SPECTRA  
MOLECULAR ABSORPTION  
MOLECULAR STRUCTURE  
SPECTROSCOPIC ANALYSIS  
ULTRAVIOLET SPECTROSCOPY  
VACUUM SPECTROSCOPY  
X RAY SPECTROSCOPY  
MOLECULAR STRUCTURE  
0603 2404  
RT ATOMIC STRUCTURE  
#CRYSTAL LATTICES  
INFRARED SPECTROSCOPY  
INTERMOLECULAR FORCES  
INTRAMOLECULAR STRUCTURES  
MOLECULAR SPECTRA  
MOLECULAR SPECTROSCOPY  
#MOLECULES  
MONATOMIC MOLECULES  
NUCLEAR MAGNETIC RESONANCE  
NUCLEAR MODELS  
ORDER-DISORDER TRANSFORMATIONS  
POLYATOMIC MOLECULES  
POLYMER  
STRUCTURES  
UNIMOLECULAR STRUCTURES  
WISWESSER NOTATIONS  
MOLECULAR THEORY  
0603 2311 2404  
RT LIGHTRAIL GAS MODEL  
MOLECULAR INTERACTIONS  
MOLECULAR PHYSICS  
THEORIES  
MOLECULAR TRAJECTORIES  
0603 1203-2404  
BT #TRAJECTORIES  
RT GAS FLOW  
MOLECULAR BEAMS  
MOLECULAR COLLISIONS  
MOLECULAR ENERGY LEVELS  
MOLECULAR OSCILLATIONS  
MOLECULAR WEIGHT  
0603 2311 2404  
BT LOW MOLECULAR WEIGHTS  
RT MOLECULAR DIFFUSION  
#MOLECULES  
MONATOMIC MOLECULES  
POLYATOMIC MOLECULES  
WEIGHT (MASS)  
#MOLECULES  
0603 2401 2404 2405 2502 2603  
UP MACROMOLECULES  
RT DIATOMIC MOLECULES  
MONATOMIC MOLECULES  
POLYATOMIC MOLECULES  
TRIATOMIC MOLECULES  
RT ATOMS  
CHEMICAL BONDS  
CHEMICAL COMPOUNDS  
#IONS  
LOW MOLECULAR WEIGHTS  
MOLECULAR BEAMS  
MOLECULAR STRUCTURE  
MOLECULAR WEIGHT  
MOLES  
0402 0404  
RT NEVUS

MOLIERE FORMULA  
USE COSMIC RAY SHOWERS  
SECONDARY COSMIC RAYS  
SPATIAL DISTRIBUTION  
MOLLIER DIAGRAM  
0603 1203 3203  
UP ENTHALPY-ENTROPY DIAGRAMS  
BT #CHARTS  
DIAGRAMS  
GRAPHS (CHARTS)  
RT ENTHALPY  
ENTROPY  
EQUATIONS OF STATE  
IDEAL FLUIDS  
ISENTROPE  
THERMODYNAMICS  
MOLLUSKS  
0402  
BT #ANIMALS  
ARTHROPODS  
CEPHALOPODS  
INVERTEBRATES  
MOLNIYA SATELLITES  
0702 0706 3107  
BT ARTIFICIAL SATELLITES  
COMMUNICATION SATELLITES  
COMMUNICATIONS SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT ELECTRIC DISCHARGES  
RADIO RELAY SYSTEMS  
SATELLITE NETWORKS  
#TELECOMMUNICATION  
TELEVISION TRANSMISSION  
U.S.S.R. SPACE PROGRAMS  
MOLTEN SALT ELECTROLYTES  
0603 1504 1804 2302 2304  
BT #CONDUCTORS  
ELECTROLYTES  
MOLTEN SALT NUCLEAR REACTORS  
2203 2204  
UP MSRE REACTORS  
BT #NUCLEAR REACTORS  
MOLTING  
0404  
RT SHEDDING  
MOLYBDATES  
0603 1804  
BT LEAD MOLYBDATES  
#MOLYBDENUM COMPOUNDS  
MOLYBDENUM  
1703  
BT #METALS  
#REFRACTORY MATERIALS  
REFRACTORY METALS  
TRANSITION METALS  
MOLYBDENUM ALLOYS  
0603 1701 1704  
RT RENE 41  
RENE 63  
RENE 77  
BT #ALLOYS  
HEAT RESISTANT ALLOYS  
#REFRACTORY MATERIALS  
REFRACTORY METAL ALLOYS  
RT HASTELLOY (TRADEMARK)  
MULBERRY (ALLOY)  
PERMALLOYS (TRADEMARK)  
STAINLESS STEELS  
MOLYBDENUM CARBIDES  
0603  
BT CARBIDES  
#CARBON COMPOUNDS  
#MOLYBDENUM COMPOUNDS  
0603 1804  
BT LEAD MOLYBDATES  
MOLYBDATES  
MOLYBDENUM DISULFIDES  
MOLYBDENUM OXIDES  
RT GROUP 6B COMPOUNDS  
METAL COMPOUNDS  
MOLYBDENUM DISULFIDES  
1704 1804  
BT #CHALCOGENIDES  
INORGANIC SULFIDES  
#MOLYBDENUM COMPOUNDS  
MOLYBDENUM SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
MOLYBDENUM OXIDES  
0603 1804  
BT #CHALCOGENIDES

MOMENTUM TRANSFER  
METAL OXIDES  
#MOLYBDENUM COMPOUNDS  
OXIDES  
MOLYBDENUM SULFIDES  
0603 1804  
BT MOLYBDENUM DISULFIDES  
BT #CHALCOGENIDES  
INORGANIC SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
MOMENT DISTRIBUTION  
2308 2311 3203  
BT #DISTRIBUTION (PROPERTY)  
RT ANGULAR DISTRIBUTION  
FORCE DISTRIBUTION  
INFLUENCE COEFFICIENT  
LOADING MOMENTS  
#LOADS (FORCES)  
MASS DISTRIBUTION  
#MOMENTS  
MOMENTS OF INERTIA  
PRESSURE DISTRIBUTION  
STATIC LOADS  
STRESS CONCENTRATION  
#STRUCTURAL ANALYSIS  
#MOMENTS  
0101 0603 2308 2311  
RT BENDING MOMENTS  
DIPOLE MOMENTS  
DISTRIBUTION MOMENTS  
ELECTRIC MOMENTS  
LOADING MOMENTS  
MAGNETIC MOMENTS  
MEAN  
MOMENTS OF INERTIA  
PITCHING MOMENTS  
ROLLING MOMENTS  
STABILITY DERIVATIVES  
STANDARD DEVIATION  
TORQUE  
VARIANCE (STATISTICS)  
YAWING MOMENTS  
RT MODE (STATISTICS)  
MOMENT DISTRIBUTION  
MOMENTUM  
SKEWNESS  
TORSION  
MOMENTS OF INERTIA  
2308 2311  
UP INERTIA MOMENTS  
BT #MOMENTS  
RT ANGULAR MOMENTUM  
CENTER OF GRAVITY  
CENTER OF PRESSURE  
CENTROIDS  
#EQUATIONS OF MOTION  
EULER EQUATIONS OF MOTION  
#INERTIA  
INERTIA PRINCIPLE  
MACH INERTIA PRINCIPLE  
#MASS  
MASS DISTRIBUTION  
MOMENT DISTRIBUTION  
PITCHING MOMENTS  
ROLLING MOMENTS  
STABILITY DERIVATIVES  
STRESS ANALYSIS  
STRUCTURAL STRAIN  
TORQUE  
YAWING MOMENTS  
MOMENTUM  
2308 2311  
RT ANGULAR MOMENTUM  
BT #CLASSICAL MECHANICS  
DE BROGLIE WAVELENGTHS  
DYNAMICS  
#MOMENTS  
MOMENTUM TRANSFER  
MOTION  
PENDULUMS  
TURNING FLIGHT  
MOMENTUM ENERGY  
USE KINETIC ENERGY  
MOMENTUM PRECESSION  
USE PRECESSION  
MOMENTUM THEORY  
2308 2311  
RT CONSERVATION LAWS  
NEWTON SECOND LAW  
THEORIES  
MOMENTUM TRANSFER  
2308 2311 3201

# MONATOMIC GASES

BT DYNAMICS  
ENERGY TRANSFER  
GAS-LIQUID INTERACTIONS  
#KINETIC THEORY  
KINETICS  
MOMENTUM  
PRANDTL NUMBER  
TRANSPERRING

MONATOMIC GASES  
0603 1203

UF ATOMIC GASES  
BT #GASES  
BT CHAPMAN-ENSKOG THEORY  
MOLECULAR GASES  
RAPE GASES  
REAL GASES

MONATOMIC MOLECULES  
0603 2311 2401 2404

BT #MOLECULES  
RT ATOMS  
CHEMICAL BONDS  
CHEMICAL COMPOUNDS  
#IONS  
LOW MOLECULAR WEIGHTS  
MOLECULAR PHYSICS  
MOLECULAR STRUCTURE  
MOLECULAR WEIGHT

MONAURAL SIGNALS  
0202 0405 0701 0705 1406

RT AUDIO EQUIPMENT  
AUDIO FREQUENCIES  
AUDITORY PERCEPTION  
AUDITORY SIGNALS  
LOUDSPEAKERS  
MICROPHONES  
SOUND TRANSMISSION

MONAZITE SANDS  
1802 2203 2406

BT #MINERALS  
PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
SANDS  
#SOILS

MONEL (TRADEMARK)  
0603 1701 1704

BT #ALLOYS  
NICKEL ALLOYS

MONGE-AMPERE EQUATION  
0902 1902 2302 2304 2402

BT #ALGEBRA  
#ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
ELLIPTIC DIFFERENTIAL EQUATIONS  
NONLINEAR EQUATIONS  
REAL VARIABLES  
RT BOUNDARY VALUE PROBLEMS

MONGOLIA  
1305

RT ASIA  
NATIONS

MONITORS  
0708 1406 1408 1409 1410

RT #AIRCRAFT INSTRUMENTS  
ALARM PROJECT  
ANALYZERS  
CONICAL SCANNING  
COUNTERS  
DATA RECORDERS  
DETECTORS  
#DISPLAY DEVICES  
GAS DETECTORS  
IN-FLIGHT MONITORING  
INSTRUMENTS  
MEASUREMENT  
#MEASURING INSTRUMENTS  
OPTICAL SCANNERS  
RADIATION MEASURING INSTRUMENTS  
#SCANNING  
WARNING  
#WARNING SYSTEMS

MONKEYS  
0402

NT CERCOCEBUS MONKEYS  
MANGABEYS

BT #ANIMALS  
CHIMPANZEES  
MAMMALS  
VERTEBRATES

MONOCHROMATIC RADIATION  
2306 2310 2402  
(LIMITED TO ELECTROMAGNETIC RADIATION)

BT #ELECTROMAGNETIC RADIATION

RT #BEAMS (RADIATION)  
BRILLOUIN EFFECT  
COHERENT ELECTROMAGNETIC RADIATION  
COHERENT LIGHT  
FILTERS  
GAMMA RAYS  
INFRARED RADIATION  
#IONIZING RADIATION  
LIGHT (VISIBLE RADIATION)  
LONG WAVE RADIATION  
MONOCHROMATIZATION  
MONOCHROMATORS  
POLARIZED ELECTROMAGNETIC RADIATION  
POLARIZED LIGHT  
RADIO WAVES  
SHORT WAVE RADIATION  
ULTRAVIOLET RADIATION  
X RAYS

MONOCHROMATIZATION  
2302 2306 2310 2403

UF INTERFERENCE MONOCHROMATIZATION  
RT MONOCHROMATIC RADIATION  
#PARTICLE ENERGY  
POLARIZATION (WAVES)

MONOCHROMATORS  
0708 1404 1411 2402

BT #MEASURING INSTRUMENTS  
RADIATION SOURCES

RT COMPARATORS  
DUOCHROMATORS  
GONIOMETERS  
LIGHT SOURCES  
MONOCHROMATIC RADIATION  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
PHOTO GONIOMETERS  
SPECTROPHOTOMETERS

MONOCOQUE CYLINDERS  
USE CYLINDRICAL SHELLS  
MONOCOQUE STRUCTURES

MONOCOQUE STRUCTURES  
0102 0104 0202 3202 3203

UF MONOCOQUE CYLINDERS  
RT CYLINDERS  
#SHELLS (STRUCTURAL FORMS)  
STRESSED-SKIN STRUCTURES  
STRUCTURES

MONOCRYSTALS  
USE SINGLE CRYSTALS

MONOCULAR VISION  
0404 0408 0506 2310

BT VISION  
RT HUMAN FACTORS ENGINEERING  
#PERCEPTION  
SPACE PERCEPTION

MONOETHANOLAMINE (MEA)  
0603 1808

BT #ALIPHATIC COMPOUNDS  
#AMINES

MONOIDS  
1902

BT #ALGEBRA  
GROUP THEORY  
HOMOMORPHISMS

MONOLITHIC CIRCUITS  
USE INTEGRATED CIRCUITS

MONOMERS  
0603 1203 1808 2404

RT DIBASIC COMPOUNDS  
DIMERS  
MOLECULAR CHAINS  
POLYMERS  
PREPOLYMERS  
TRIMERS

MONOMOLECULAR FILMS  
1202 1203 1802

BT SURFACE LAYERS  
THIN FILMS

RT ENERGY ABSORPTION FILMS  
FILMS  
LAYERS  
MOLECULAR ELECTRONICS  
SURFACTANTS  
THIN LAYER CHROMATOGRAPHY

MONOPLANES  
0101 0102 0201

NT AN-22 AIRCRAFT  
AN-24 AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
AVRO 707 AIRCRAFT  
AV 650 AIRCRAFT  
BAC 111 AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

BEECHCRAFT 18 AIRCRAFT  
BEECHCRAFT 95 AIRCRAFT  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 733 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOLKOW 207 AIRCRAFT  
BREGUET 940 AIRCRAFT  
BREGUET 941 AIRCRAFT  
BREGUET 942 AIRCRAFT  
BREGUET 1150 AIRCRAFT  
BS-210 AIRCRAFT  
BUCCANER AIRCRAFT  
C-123 AIRCRAFT  
CANBERRA AIRCRAFT  
CESSNA 172 AIRCRAFT  
CESSNA 205 AIRCRAFT  
CESSNA 210 AIRCRAFT  
CESSNA 336 AIRCRAFT  
CESSNA L-19 AIRCRAFT  
CL-28 AIRCRAFT  
CL-41 AIRCRAFT  
CL-44 AIRCRAFT  
COMET 4 AIRCRAFT  
CONVAIR 880 AIRCRAFT  
CV-340 AIRCRAFT  
CV-440 AIRCRAFT  
CV-990 AIRCRAFT  
D-558 AIRCRAFT  
DC 3 AIRCRAFT  
DC 7 AIRCRAFT  
DC 8 AIRCRAFT  
DH 108 AIRCRAFT  
DH 110 AIRCRAFT  
DH 112 AIRCRAFT  
DH 115 AIRCRAFT  
DH 121 AIRCRAFT  
DH 125 AIRCRAFT  
DHC 4 AIRCRAFT  
DHC 5 AIRCRAFT  
DINFIA PA AIRCRAFT  
DO-27 AIRCRAFT  
DO-28 AIRCRAFT  
DO-31 AIRCRAFT  
EC-121 AIRCRAFT  
ELECTRA AIRCRAFT  
F-2 AIRCRAFT  
F-9 AIRCRAFT  
F-27 AIRCRAFT  
F-84 AIRCRAFT  
F-86 AIRCRAFT  
F-89 AIRCRAFT  
F-94 AIRCRAFT  
F-100 AIRCRAFT  
F-102 AIRCRAFT  
F-104 AIRCRAFT  
F-105 AIRCRAFT  
F-106 AIRCRAFT  
F-28 TRANSPORT AIRCRAFT  
FD 2 AIRCRAFT  
G-95/4 AIRCRAFT  
G-1 AIRCRAFT  
G-91 AIRCRAFT  
G-222 AIRCRAFT  
GA-5 AIRCRAFT  
GY-80 AIRCRAFT  
H-126 AIRCRAFT  
HE-211 AIRCRAFT  
HFB-320 AIRCRAFT  
HP-115 AIRCRAFT  
HS-748 AIRCRAFT  
IL-14 AIRCRAFT  
IL-28 AIRCRAFT  
IL-62 AIRCRAFT  
JET PROVOST AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
L-1649 AIRCRAFT  
L-29 JET TRAINER  
LOCKHEED MODEL 18 AIRCRAFT  
M-218 AIRCRAFT  
MH-260 AIRCRAFT  
MH-262 AIRCRAFT  
MIRAGE 3 AIRCRAFT  
MYSTERE 20 AIRCRAFT  
N-2501 AIRCRAFT  
NORD 1500 AIRCRAFT  
OV-1 AIRCRAFT  
OV-10 AIRCRAFT  
P-1052 AIRCRAFT  
P-1067 AIRCRAFT  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT

## NASA THESAURUS (ALPHABETICAL LISTING)

PD-808 AIRCRAFT  
 POTEZ 840 AIRCRAFT  
 PZL M-4 AIRCRAFT  
 RB-50 AIRCRAFT  
 RF-1 AIRCRAFT  
 S-2 AIRCRAFT  
 SAAB 91 AIRCRAFT  
 SAAB 105 AIRCRAFT  
 SC-1 AIRCRAFT  
 SC-5 AIRCRAFT  
 SC-7 AIRCRAFT  
 SCIMITAR AIRCRAFT  
 SE-210 AIRCRAFT  
 SHACKLETON BOMBER  
 SI-204 AIRCRAFT  
 SIAT 311 AIRCRAFT  
 SUNDERLAND 5 FLYING BOAT  
 T-2 AIRCRAFT  
 T-28 AIRCRAFT  
 T-33 AIRCRAFT  
 T-37 AIRCRAFT  
 T-38 AIRCRAFT  
 T-39 AIRCRAFT  
 TS-11 AIRCRAFT  
 TSR-2 AIRCRAFT  
 VALIANT AIRCRAFT  
 VC-10 AIRCRAFT  
 VICTOR HK-1 AIRCRAFT  
 VISCOUNT AIRCRAFT  
 VJ-101 AIRCRAFT  
 VZ-3 AIRCRAFT  
 X-21A AIRCRAFT  
 X-1 AIRCRAFT  
 X-2 AIRCRAFT  
 X-3 AIRCRAFT  
 X-5 AIRCRAFT  
 X-13 AIRCRAFT  
 X-14 AIRCRAFT  
 X-21 AIRCRAFT  
 XC-142 AIRCRAFT  
 XV-4 AIRCRAFT  
 XV-5 AIRCRAFT  
 YS-11 AIRCRAFT  
 Z-37 AIRCRAFT  
 BT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT  
 #AIRFOILS  
 BIPLANES  
 #GLIDERS  
 LOW WING AIRCRAFT  
 SEAPLANES  
 TAILLESS AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT  
 WING PLATFORMS  
 WING PROFILES  
 WINGED VEHICLES  
 MONOPOLE ANTENNAS  
 0701 0702 0901  
 UP SPIKE ANTENNAS  
 NT WHIP ANTENNAS  
 BT ANTENNAS  
 #CONDUCTORS  
 OMNIDIRECTIONAL ANTENNAS  
 RT ANTENNA DESIGN  
 DIPOLE ANTENNAS  
 LOOP ANTENNAS  
 MONOPOLES  
 SPIKES  
 MONOPOLES  
 0603 1203 2404  
 RT DIPOLES  
 MONOPOLE ANTENNAS  
 MULTIPOLES  
 POLES  
 MONOPROPELLANTS  
 2702  
 NT AEROZINE  
 BT #FUELS  
 LIQUID ROCKET PROPELLANTS  
 #LIQUIDS  
 #PROPELLANTS  
 ROCKET PROPELLANTS  
 RT AIRCRAFT FUELS  
 CHEMICAL FUELS  
 GASEOUS ROCKET PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 METAL PROPELLANTS  
 PLASTIC PROPELLANTS  
 PROPELLANT DECOMPOSITION  
 SLURRY PROPELLANTS  
 SOLID ROCKET PROPELLANTS

MONOPULSE ANTENNAS  
 0701 0901  
 BT ANTENNAS  
 #CONDUCTORS  
 RT DIRECTIONAL ANTENNAS  
 MONOPULSE RADAR  
 PHASED ARRAYS  
 WAVEGUIDE ANTENNAS  
 MONOPULSE RADAR  
 0705  
 BT PULSE DOPPLER RADAR  
 PULSE RADAR  
 #RADAR  
 RT DOPPLER RADAR  
 DUPLEXERS  
 MONOPULSE ANTENNAS  
 RADAR TRACKING  
 TRACKING RADAR  
 MONOSACCHARIDES  
 0403 1808  
 NT RIBOSE  
 XYLOSE  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 SUGARS  
 MONOSCOPES  
 0605 0905 1002  
 BT TELEVISION EQUIPMENT  
 RT CAMERA TUBES  
 ELECTRON BEAMS  
 IMAGE TUBES  
 SECONDARY EMISSION  
 TEST EQUIPMENT  
 MONOSTABLE MULTIVIBRATORS  
 0701 0905 1001 1002 2311  
 BT #CIRCUITS  
 MULTIVIBRATORS  
 MONOTONE FUNCTIONS  
 1902 1903  
 BT #FUNCTIONS (MATHEMATICS)  
 RT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 REAL VARIABLES  
 MONOTONY  
 0408 0410  
 RT BOREDOM  
 LETHARGY  
 SENSORY DEPRIVATION  
 MONSOONS  
 2001 2003  
 BT #WIND (METEOROLOGY)  
 RT ANNUAL VARIATIONS  
 ATMOSPHERIC CIRCULATION  
 GROUND WIND  
 PRECIPITATION (METEOROLOGY)  
 MONTANA  
 1305  
 BT UNITED STATES OF AMERICA  
 MONTE CARLO METHOD  
 0802 1902 1905  
 BT NUMERICAL ANALYSIS  
 RT DIFFUSION THEORY  
 EXPECTANCY HYPOTHESIS  
 GAME THEORY  
 MARKOV CHAINS  
 MATHEMATICAL MODELS  
 METHODOLOGY  
 PROBABILITY THEORY  
 RANDOM PROCESSES  
 RANDOM WALK  
 #SIMULATION  
 #STATISTICAL ANALYSIS  
 #STOCHASTIC PROCESSES  
 TRANSPORT THEORY  
 MONTH  
 1406  
 UP LUNATION  
 RT CALENDARS  
 #TIME  
 UNITS OF MEASUREMENT  
 MONTICELLITE  
 1804 1806  
 BT #CALCIUM COMPOUNDS  
 #MAGNESIUM COMPOUNDS  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 RT OLIVINE  
 MONTMORILLONITE  
 1804 1806  
 BT #ALUMINUM COMPOUNDS  
 ALUMINUM SILICATES

## MOORINGS

#MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 RT BENTONITE  
 MOODS  
 0408 0410  
 RT EMOTIONAL FACTORS  
 EMOTIONS  
 #PSYCHOLOGICAL EFFECTS  
 PSYCHOLOGICAL FACTORS  
 SENSORY FEEDBACK  
 MOON  
 3001 3002 3003 3004 3008 3009  
 BT #CELESTIAL BODIES  
 EARTH SATELLITES  
 NATURAL SATELLITES  
 #SATELLITES  
 RT EARTH-MOON SYSTEM  
 LIGHT SOURCES  
 LUNAR ATMOSPHERES  
 LUNAR BASES  
 LUNAR COMMUNICATION  
 LUNAR COMPOSITION  
 LUNAR CRATERS  
 LUNAR CRUST  
 LUNAR DUST  
 LUNAR ECLIPSES  
 LUNAR ENVIRONMENT  
 LUNAR EVOLUTION  
 LUNAR EXPLORATION  
 LUNAR FAR SIDE  
 LUNAR GEOLOGY  
 LUNAR GRAVITATION  
 LUNAR LANDING SITES  
 LUNAR LIMB  
 LUNAR LUMINESCENCE  
 LUNAR MAGNETIC FIELDS  
 LUNAR MAPS  
 LUNAR OCCULTATION  
 LUNAR ORBITS  
 LUNAR PHASES  
 LUNAR PHOTOGRAPHY  
 LUNAR RAYS  
 LUNAR SHADOW  
 LUNAR SOIL  
 LUNAR TEMPERATURE  
 LUNAR TOPOGRAPHY  
 SELENOGRAPHY  
 SELENOLOGY  
 MOON-EARTH TRAJECTORIES  
 1904 3004 3006 3009  
 BT LUNAR TRAJECTORIES  
 SPACECRAFT TRAJECTORIES  
 #TRAJECTORIES  
 RT APOLLO 5 FLIGHT  
 APOLLO 6 FLIGHT  
 APOLLO 7 FLIGHT  
 APOLLO 8 FLIGHT  
 APOLLO 10 FLIGHT  
 APOLLO 11 FLIGHT  
 APOLLO 12 FLIGHT  
 APOLLO 13 FLIGHT  
 APOLLO 14 FLIGHT  
 APOLLO 15 FLIGHT  
 APOLLO 16 FLIGHT  
 CIRCUMLUNAR TRAJECTORIES  
 EARTH-MOON TRAJECTORIES  
 LUNAR FLIGHT  
 ORBITAL MECHANICS  
 REENTRY TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 MOON ILLUSION  
 0408 0410  
 BT ILLUSIONS  
 #PSYCHOLOGICAL EFFECTS  
 RT OPTICAL ILLUSION  
 SENSORY FEEDBACK  
 MOONMOBILES  
 USE LUNAR SURFACE VEHICLES  
 MANNED LUNAR SURFACE VEHICLES  
 MOORING  
 1102 1104 1105 2103  
 UP MOORINGS  
 RT AIRPORTS  
 ANCHORS (FASTENERS)  
 #FASTENERS  
 JOINING  
 MATERIALS HANDLING  
 MULTIPLE DOCKING ADAPTERS  
 SPACECRAFT DOCKING  
 MOORINGS  
 USE MOORING

# MOPS (PROPULSION SYSTEMS)

MOPS (PROPULSION SYSTEMS)  
USE MAN OPERATED PROPULSION SYSTEMS

MORALE  
0408 0410 0502 3401

RT CREATIVITY  
DISCIPLINING  
LEADERSHIP  
MOTIVATION  
PRODUCTIVITY  
\*PSYCHOLOGY  
RECREATION

MOREHOUSE COMET  
3001 3005  
BT \*CELESTIAL BODIES  
COMETS

MORL  
USE MANNED ORBITAL RESEARCH  
LABORATORIES

MORNING  
1308 3001  
RT DAYTIME  
SUNRISE

MOROCCO  
1305  
RT AFRICA  
NATIONS

MORPHINE  
0403 0405 0408 1808

BT ALKALOIDS  
\*DRUGS  
\*HETEROCYCLIC COMPOUNDS  
NARCOTICS  
\*NITROGEN COMPOUNDS

MORPHOLOGICAL INDEXES  
0602 0603

MORPHOLOGY  
0404 1306 3405  
NT GEOMORPHOLOGY  
ISOMORPHISM  
LUNG MORPHOLOGY  
POLYMORPHISM  
RT \*ANATOMY  
BIOLOGY  
DIFFERENTIATION (BIOLOGY)  
\*GEOLOGY  
HISTOLOGY  
MATHEMATICS  
SHAPES  
VESTIBULES

MORPHOTROPISM  
USE ISOMORPHISM

MORSE CODE  
0702 0703  
RT CODES  
\*COMMUNICATING  
KEYING  
RADIO TELEGRAPHY  
\*TELECOMMUNICATION

MORSE POTENTIAL  
1202 1203 1902  
RT DIATOMIC MOLECULES  
\*KINETIC THEORY  
\*POTENTIAL ENERGY

MORTALITY  
0404 0405 0408 0411  
RT AGING (BIOLOGY)  
DEATH  
EXPIRATION  
LIFE SPAN  
MILLS RATIO

MORTARS (MATERIAL)  
1504 1801 1805 1806 3401

RT ADMIXTURES  
BRICKS  
CEMENTS  
CERAMICS  
CONCRETES  
GROUT  
MASONRY  
PLASTERS  
REFRACTORIES

MOS (SEMICONDUCTORS)  
USE METAL OXIDE SEMICONDUCTORS

MOSAICS  
0701 0702 1407  
RT ASSEMBLIES  
DIFFRACTION  
NETWORKS  
PHOTOGRAPHS

MOSCOW  
1305  
RT U.S.S.R.

MOSPET  
USE FIELD EFFECT TRANSISTORS  
MOSS (SPACE STATIONS)  
USE ORBITAL SPACE STATIONS  
MOSSBAUER EFFECT  
0603 2402

RT \*CRYSTAL LATTICES  
ELECTROMAGNETIC ABSORPTION  
FLUORESCENCE  
GAMMA RAYS  
RESONANCE SCATTERING  
RESONANT FREQUENCIES

MOT (ORBITAL TELESCOPES)  
USE MANNED ORBITAL TELESCOPES

MOTHS  
0402  
NT SILKWORKS  
BT \*ANIMALS  
ARTHROPODS  
INSECTS  
INVERTEBRATES

MOTILITY  
USE LOCOMOTION

MOTION  
0101 0201 1202 2003 2311 3009  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UP ANIMATION  
MOVEMENT  
RT ACCELERATION (PHYSICS)  
ATTITUDE (INCLINATION)  
BROWNIAN MOVEMENTS  
DISPLACEMENT  
DOMAIN WALL  
GLIDING

\*GYRATION  
HARMONIC MOTION  
HEAD MOVEMENT  
WEAVING  
HIGH ACCELERATION  
IMMOBILIZATION  
\*INERTIA  
ION MOTION  
IONIC MOBILITY  
KINEMATICS  
LIBRATION  
MOMENTUM  
NUTATION  
\*ORBITS  
\*OSCILLATIONS  
\*OSCILLATORS

PARTICLE MOTION  
PARTICLE TRAJECTORIES  
PITCH (INCLINATION)  
ROTATION  
SOLAR ORBITS  
SPACECRAFT MOTION  
SPACECRAFT TRAJECTORIES  
STELLAR MOTIONS  
SWARMING  
TEETERING  
TRANSIT TIME  
\*TRANSLATIONAL MOTION  
TUMBLING MOTION  
\*TURBULENCE  
VELOCITY  
VERTICAL MOTION  
\*VIBRATION  
VISCOSITY  
YAW

MOTION AFTEREFFECTS  
2308 2311  
RT \*EQUATIONS OF MOTION  
MOTION STABILITY  
MOTION EQUATIONS  
USE \*EQUATIONS OF MOTION  
MOTION PERCEPTION  
USE SPACE PERCEPTION  
MOTION PICTURES  
1401 1407

UP CINEFLUOROGRAPHY  
CINERADIOGRAPHY  
BT PHOTOGRAPHS  
RT CHRONOPHOTOGRAPHY  
CINEMATOGRAPHY  
GRAPHIC ARTS  
PROJECTORS  
SUPPLEMENTS  
VIDEO EQUIPMENT

MOTION SICKNESS  
0401 0405 0408

# NASA THESAURUS (ALPHABETICAL LISTING)

UP AIR SICKNESS  
RT ACCELERATION STRESSES (PHYSIOLOGY)  
NAUSEA

MOTION SICKNESS DRUGS  
0401 0405

BT \*DRUGS  
RT PHARMACOLOGY  
MOTION STABILITY  
1403 2308

NT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
ATTITUDE STABILITY  
BOUNDARY LAYER STABILITY  
DIRECTIONAL STABILITY  
FLAME STABILITY  
FLOW STABILITY  
GYROSCOPIC STABILITY  
HOVERING STABILITY  
LATERAL STABILITY  
LONGITUDINAL STABILITY  
LOW SPEED STABILITY  
MAGNETOHYDRODYNAMIC STABILITY  
ROTARY STABILITY  
SPACECRAFT STABILITY

BT \*DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
\*STABILITY

RT COMBUSTION STABILITY  
CONTROL STABILITY  
DYNAMIC TESTS  
MOTION AFTEREFFECTS  
ROUGHNESS  
SPACECRAFT MOTION  
STABLE OSCILLATIONS  
SURFACE STABILITY

MOTIVATION  
0408 0410 3406

RT DRIVES  
INCENTIVES  
\*LEARNING  
MORALE  
REINFORCEMENT (PSYCHOLOGY)  
SELF STIMULATION  
STIMULI

MOTOR SYSTEMS (BIOLOGY)  
USE EFFERENT NERVOUS SYSTEMS

\*MOTORS  
0301 0904 1003 1504 2801 2808  
(MACHINES SUPPLIED WITH EXTERNAL  
ENERGY WHICH IS CONVERTED INTO FORCE  
AND/OR MOTION)

NT ELECTRIC MOTORS  
MICROMOTORS  
SERVOMOTORS  
SYNCHRONOUS MOTORS  
TORQUE MOTORS

RT ELECTRIC EQUIPMENT  
ENERGY CONVERSION EFFICIENCY  
\*ENGINES  
GENERATORS  
HYDRAULIC EQUIPMENT  
STATORS

MOTS (TRACKING SYSTEM)

USE MINITRACK SYSTEM

MOUNTAIN INHABITANTS  
0401 0402 0404 0405 0408 0502

BT \*COMMUNITIES  
INHABITANTS  
RT ALTITUDE ACCLIMATIZATION  
HIGH ALTITUDE ENVIRONMENTS  
LOW TEMPERATURE ENVIRONMENTS

MOUNTAINS  
1308 1306

BT HIMALAYAS  
RT \*CONTINENTS  
FORMATIONS  
GEOMORPHOLOGY  
HIGHLANDS  
OROGRAPHY  
PEAKS  
RIDGES  
VOLCANOLOGY

MOUNTING  
0202 1504 1507 2806 3404 3407

RT RIGID MOUNTING  
RT ASSEMBLING  
ATTACHMENT  
BRACKETS  
JOINING  
SUSPENDING (HANGING)

MOUNTS  
USE SUPPORTS



# NASA THESAURUS (ALPHABETICAL LISTING)

MOUTH  
 0404 0405 0508  
 BT #DIGESTIVE SYSTEM  
 RT SALIVARY GLANDS  
 TEETH  
 TONGUE  
 MOVEMENT  
 USE MOTION  
 MOVING TARGET INDICATORS  
 0705 0709 3401  
 UP RTI RADAR  
 BT #RADAR  
 RT COHERENT RADAR  
 DOPPLER RADAR  
 OVER-THE-HORIZON RADAR  
 RADAR CROSS SECTIONS  
 RADAR TRACKING  
 TARGET ACQUISITION  
 NR-3 FLIGHT  
 USE MERCURY NR-3 FLIGHT  
 NUKOS COMET  
 3001 3005  
 BT #CELESTIAL BODIES  
 COMETS  
 NSRE REACTORS  
 USE MOLTEN SALT NUCLEAR REACTORS  
 NTBP  
 1505 1905  
 UP MEAN TIME BETWEEN FAILURES  
 BT #TIME  
 RT DOWNTIME  
 FAILURE ANALYSIS  
 LIFE (DURABILITY)  
 #RATES (PER TIME)  
 RELIABILITY  
 #STATISTICAL ANALYSIS  
 RTI RADAR  
 USE MOVING TARGET INDICATORS  
 NUBIS (SCANNERS)  
 USE MULTIPLE BEAM INTERVAL SCANNERS  
 NUCOCELES  
 0405 0406 0408  
 RT BLISTERS  
 NUCOUS  
 0404 0405  
 BT #BODY FLUIDS  
 RT SALIVA  
 NUD  
 1306 2001  
 BT #SOILS  
 RT CLAYS  
 GROUT  
 OCEAN BOTTOM  
 SEDIMENTS  
 SLUDGE  
 NUFFLERS  
 0202 0203  
 RT AIRCRAFT NOISE  
 #ATTENUATORS  
 Baffles  
 DAMPING  
 DIFFUSERS  
 EXHAUST SYSTEMS  
 FURNACES  
 JET AIRCRAFT NOISE  
 NOISE (SOUND)  
 NOISE REDUCTION  
 ROCKET ENGINE NOISE  
 SILENCERS  
 SUPPRESSORS  
 NULBERRY (ALLOY)  
 1701  
 BT #ALLOYS  
 RT ANTIMONY ALLOYS  
 HOLYBDENUM ALLOYS  
 NULITES  
 0603 1806  
 RT #MINERALS  
 MULTICHANNEL COMMUNICATION  
 0702 0705  
 UP MULTICHANNEL RECEIVERS  
 MULTICHANNEL TRANSMITTERS  
 BT #TELECOMMUNICATION  
 RT INTERFERENCE FACTOR TABLE  
 RADIO TRANSMITTERS  
 MULTICHANNEL RECEIVERS  
 USE MULTICHANNEL COMMUNICATION  
 RECEIVERS  
 MULTICHANNEL TRANSMITTERS  
 USE MULTICHANNEL COMMUNICATION  
 #TRANSMITTERS

MULTIEENGINE VEHICLES  
 0201 1103 1108 1504 2801 2808 3110  
 RT AIRCRAFT  
 #LAUNCH VEHICLES  
 MISSILE CONFIGURATIONS  
 #MISSILES  
 MULTISTAGE ROCKET VEHICLES  
 RECOVERABLE LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 MULTILAYER INSULATION  
 2303 3303 3305  
 BT INSULATION  
 INTERLAYERS  
 RT #COMPOSITE MATERIALS  
 CRYOGENIC FLUID STORAGE  
 FABRICS  
 FOILS  
 FOILS (MATERIALS)  
 LAMINATES  
 LAYERS  
 METAL FOILS  
 SANDWICH STRUCTURES  
 SHEETS  
 MULTILAYER STRUCTURES  
 USE LAMINATES  
 MULTILOOP SYSTEMS  
 USE CASCADE CONTROL  
 MULTINODE RESONATORS  
 0701 0705 0905  
 BT RESONATORS  
 RT CAVITY RESONATORS  
 MAGNETRONS  
 PROPAGATION MODES  
 MULTIPACTOR DISCHARGES  
 0705 0904 0905 2304  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT LINEAR ACCELERATORS  
 PHOTOMULTIPLIER TUBES  
 SECONDARY EMISSION  
 SPARK GAPS  
 MULTIPATH TRANSMISSION  
 0702 0710 2402  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 RADIO TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 RT DIFFRACTION PATHS  
 FERMAT PRINCIPLE  
 OPTICAL PATHS  
 PATHS  
 RADIO WAVES  
 SOUND TRANSMISSION  
 WAVE PROPAGATION  
 MULTIPHASE FLOW  
 1202 1203 1204  
 UP MIXED FLOW  
 RT TWO PHASE FLOW  
 BT #FLUID FLOW  
 CONICAL FLOW  
 CRITICAL FLOW  
 CROCCO-LEE THEORY  
 FLOW DISTORTION  
 FLOW MEASUREMENT  
 GAS FLOW  
 LAMINAR FLOW  
 LIQUID FLOW  
 MASS FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 SINGLE-PHASE FLOW  
 SOLIDS FLOW  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 MULTIPLE BEAM INTERVAL SCANNERS  
 0701 0702 0705 0901  
 UP NUBIS (SCANNERS)  
 BT ANTENNAS  
 #CONDUCTORS  
 RT LINEAR ARRAYS  
 RADAR SCANNING  
 MULTIPLE DEGREES OF FREEDOM  
 USE DEGREES OF FREEDOM  
 MULTIPLE DOCKING ADAPTERS  
 2102 3004 3007 3110 1504 3203  
 UP #DA

# MULTISPECTRAL TRACKING TELESCOPES

BT ADAPTERS  
 RT AIRBLOCK MODULES  
 BOORING  
 ORBITAL RENDEZVOUS  
 SATURN 1 WORKSHOP  
 SATURN 5 WORKSHOP  
 SATURN WORKSHOPS  
 SPACECRAFT DOCKING  
 MULTIPLE OUTPUT PROGRAMS  
 0802 0803  
 BT #COMPUTER PROGRAMS  
 RT MULTIPROGRAMMING  
 READOUT  
 TIME SHARING  
 MULTIPLE TARGET TRAJECTORY SYSTEMS  
 USE MATTS (SYSTEMS)  
 MULTIPLETS  
 USE FINE STRUCTURE  
 MULTIPLEX TRANSMISSION  
 USE MULTIPLEXING  
 MULTIPLEXERS  
 USE MULTIPLEXING  
 MULTIPLEXING  
 0705 0708 0710 0802 3407  
 UP MULTIPLEX TRANSMISSION  
 MULTIPLEXERS  
 RT FREQUENCY DIVISION MULTIPLEXING  
 TIME DIVISION MULTIPLEXING  
 RT CARRIER FREQUENCIES  
 DATA TRANSMISSION  
 PULSE COMMUNICATION  
 RADIO TRANSMISSION  
 SATELLITE TRANSMISSION  
 #SIGNAL TRANSMISSION  
 MULTIPLICATION  
 1902  
 BT #NUMBER THEORY  
 RT ARITHMETIC  
 #COMPUTATION  
 MULTIPLIER PHOTOTUBES  
 USE PHOTOMULTIPLIER TUBES  
 MULTIPLIERS  
 0902 1002 1902  
 RT LAGRANGE MULTIPLIERS  
 LOGIC CIRCUITS  
 PHOTOMULTIPLIER TUBES  
 MULTIPOLAR FIELDS  
 2304 2307 2402  
 RT CONTINUUM MECHANICS  
 FIELD THEORY (PHYSICS)  
 GRAVITATIONAL FIELDS  
 #MAGNETIC FIELDS  
 MULTIPOLES  
 0603 0604 2401 2404 3408  
 RT MONOPOLES  
 MULTIPOLAR FIELDS  
 MULTIPROGRAMMING  
 0802 0803  
 BT COMPUTER PROGRAMMING  
 RT MACHINE-INDEPENDENT PROGRAMS  
 MULTIPLE OUTPUT PROGRAMS  
 PROGRAMMING  
 TIME SHARING  
 MULTIPROPELLANTS  
 USE ROCKET PROPELLANTS  
 MULTISPECTRAL BAND SCANNERS  
 0705 0905 1402 1404 1406 1407 1409  
 BT INFRARED SCANNERS  
 #OPTICAL EQUIPMENT  
 OPTICAL SCANNERS  
 RT IMAGING TECHNIQUES  
 PANORAMIC SCANNING  
 #PHOTOGRAPHY  
 #SCANNING  
 SPACEBORNE PHOTOGRAPHY  
 SPECTRAL RECONNAISSANCE  
 MULTISPECTRAL PHOTOGRAPHY  
 1401 1402 1404 1407  
 RT INFRARED PHOTOGRAPHY  
 RADAR PHOTOGRAPHY  
 BT #PHOTOGRAPHY  
 RT #IMAGERY  
 IMAGING TECHNIQUES  
 SPECTRAL RECONNAISSANCE  
 MULTISPECTRAL TRACKING TELESCOPES  
 1411 1412 3001  
 BT SPECTROSCOPIC TELESCOPES  
 #TELESCOPES  
 RT #OPTICAL EQUIPMENT  
 OPTICAL MEASURING EQUIPMENT  
 OPTICAL TRACKING

# MULTISTAGE COMPRESSORS

TRACKING  
#TRACKING (POSITION)  
MULTISTAGE COMPRESSORS  
USE TURBOCOMPRESSORS  
MULTISTAGE ROCKET VEHICLES  
3103 3105 3106 3110  
NT ABLESTAR LAUNCH VEHICLE  
ANTARES ROCKET VEHICLE  
ARGO D-4 ROCKET VEHICLE  
ARGO D-8 ROCKET VEHICLE  
ARGO E-5 ROCKET VEHICLE  
ARGO ROCKET VEHICLES  
ASTROBEE 200 ROCKET VEHICLE  
ASTROBEE 1500 ROCKET VEHICLE  
ASTROBEE ROCKET VEHICLES  
ATHENA ROCKET VEHICLE  
ATLAS ABLE 5 LAUNCH VEHICLE  
ATLAS AGENA B LAUNCH VEHICLE  
ATLAS AGENA LAUNCH VEHICLES  
ATLAS CENTAUR LAUNCH VEHICLE  
ATLAS LAUNCH VEHICLES  
ATLAS SLV-3 LAUNCH VEHICLE  
BERENICE ROCKET VEHICLE  
BLACK KNIGHT ROCKET VEHICLE  
BLUE SCOUT JR ROCKET VEHICLE  
BLUE SCOUT ROCKET VEHICLE  
D-6 ROCKET VEHICLE  
DEACON-ARROW ROCKET VEHICLE  
DIAMANT LAUNCH VEHICLE  
ELDO LAUNCH VEHICLE  
EXOS SOUNDING ROCKET  
JAGUAR ROCKET VEHICLE  
JASON ROCKET VEHICLE  
JAVELIN ROCKET VEHICLE  
JOURNEYMAN ROCKET VEHICLE  
JUNO 1 LAUNCH VEHICLE  
JUNO 2 LAUNCH VEHICLE  
JUNO 5 LAUNCH VEHICLE  
JUNO LAUNCH VEHICLES  
JUPITER C ROCKET VEHICLE  
KAPPA 6 ROCKET VEHICLE  
KAPPA 8 ROCKET VEHICLE  
KAPPA 9 ROCKET VEHICLE  
KAPPA ROCKET VEHICLES  
LAMBDA ROCKET VEHICLES  
LITTLE JOE 2 LAUNCH VEHICLE  
NIKE-APACHE ROCKET VEHICLE  
NIKE-ASP ROCKET VEHICLE  
NIKE-CAJUN ROCKET VEHICLE  
NIKE-HYDAC ROCKET VEHICLE  
NIKE-IROQUOIS ROCKET VEHICLE  
NIKE-JAVELIN ROCKET VEHICLE  
NIKE ROCKET VEHICLES  
NIKE-TOMAHAWK ROCKET VEHICLE  
NOVA B LAUNCH VEHICLE  
NOVA J LAUNCH VEHICLE  
NOVA LAUNCH VEHICLES  
OPD-220 ROCKET VEHICLE  
PHOENIX SOUNDING ROCKET  
RAM B LAUNCH VEHICLE  
RUBIS ROCKET VEHICLE  
SATURN 1B LAUNCH VEHICLES  
SATURN D LAUNCH VEHICLE  
SATURN LAUNCH VEHICLES  
SATURN 1 LAUNCH VEHICLES  
SATURN 2 LAUNCH VEHICLES  
SATURN 5 LAUNCH VEHICLES  
SATURN 1 SA-1 LAUNCH VEHICLE  
SATURN 1 SA-2 LAUNCH VEHICLE  
SATURN 1 SA-3 LAUNCH VEHICLE  
SATURN 1 SA-4 LAUNCH VEHICLE  
SATURN 1 SA-5 LAUNCH VEHICLE  
SATURN 1 SA-6 LAUNCH VEHICLE  
SATURN 1 SA-7 LAUNCH VEHICLE  
SATURN 1 SA-8 LAUNCH VEHICLE  
SATURN 1 SA-9 LAUNCH VEHICLE  
SATURN 1 SA-10 LAUNCH VEHICLE  
SCOUT LAUNCH VEHICLE  
SHOTPUT SOUNDING ROCKETS  
SKYLARK ROCKET VEHICLE  
STANDARD LAUNCH VEHICLE 1B  
STRONGARM ROCKET VEHICLE  
THOR ABLE ROCKET VEHICLE  
THOR AGENA LAUNCH VEHICLE  
THOR DELTA LAUNCH VEHICLE  
THOR LAUNCH VEHICLES  
TITAN 3 LAUNCH VEHICLE  
TITAN LAUNCH VEHICLES  
VANGUARD 2 LAUNCH VEHICLE  
VEGA LAUNCH VEHICLE  
WASP SOUNDING ROCKET  
X-17 REENTRY VEHICLE

BT #ROCKET VEHICLES  
BT AIR LAUNCHING  
#LAUNCH VEHICLES  
MINUTEMAN ICBM  
MULTIENGINE VEHICLES  
NAVAHO MISSILE  
PAYLOAD MASS RATIO  
PERSHING MISSILE  
PIGGYBACK SYSTEMS  
POLARIS MISSILES  
PROPULSIVE EFFICIENCY  
ROCKET ENGINES  
SS-11 MISSILE  
STAGE SEPARATION  
SUNBLAZER SPACE PROBE  
TALOS MISSILE  
TERRIER MISSILE  
TITAN ICBM  
TRAILBLAZER 1 REENTRY VEHICLE  
TRAILBLAZER 2 REENTRY VEHICLE  
MULTIVARIATE STATISTICAL ANALYSIS  
1902 1905  
NT BIVARIATE ANALYSIS  
CORRELATION  
COVARIANCE  
DISCRETE FUNCTIONS  
ORTHOGONALITY  
REGRESSION ANALYSIS  
BT #STATISTICAL ANALYSIS  
VARIANCE (STATISTICS)  
RT ANALYZING  
VARIANCE  
MULTIVIBRATORS  
0801 0902 1201  
NT FLIP-FLOPS  
MONOSTABLE MULTIVIBRATORS  
BT #CIRCUITS  
RT #AMPLIFIERS  
BISTABLE CIRCUITS  
LOGIC CIRCUITS  
#OSCILLATORS  
POSITIVE FEEDBACK  
SWITCHING CIRCUITS  
TRIGGER CIRCUITS  
MUONIUM  
2401 2403  
RT ELECTRONS  
MESONS  
MUONS  
2403 2405  
RT CHARGED PARTICLES  
ELECTRON DECAY RATE  
LEPTONS  
NUCLEAR PARTICLES  
MURRAY METEORITE  
3005  
BT CARBONACEOUS METEORITES  
#CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES  
MUSCLE RELAXANTS  
0404 0405 0408  
BT #DRUGS  
MUSCLES  
0403 0404  
NT MYOCARDIUM  
RT ATAXIA  
CONGENERS  
CONVULSIONS  
DIAPHRAGM (ANATOMY)  
ELECTROCARDIOGRAPHY  
FIBRILLATION  
HYPODYNAMIA  
HYOELECTRIC POTENTIALS  
#HYOELECTRICITY  
TWITCHING  
MUSCOVITE  
1806  
BT #ALUMINUM COMPOUNDS  
#CHALCOGENIDES  
MICA  
#MINERALS  
OXIDES  
#SILICON COMPOUNDS  
SILICON OXIDES  
MUSCULAR FATIGUE  
0401 0408  
BT FATIGUE (BIOLOGY)  
MUSCULAR FUNCTION  
0404 0408

# NASA THESAURUS (ALPHABETICAL LISTING)

BT SPASMS  
RT CRAMPS  
FUNCTIONS  
HYPODYNAMIA  
HYPOKINESIA  
MECHANOGAMS  
TWITCHING  
MUSCULAR STRENGTH  
0404 0408  
RT STRENGTH  
MUSCULAR TONUS  
0404 0405 0408  
UP TONUS  
NT HYPOTONIA  
MUSCULOSKELETAL SYSTEM  
0404 0408  
UP SKELETON  
NT BONES  
CARTILAGE  
CEREBRUM  
CHIN  
COLLAGENS  
CONGENERS  
CONNECTIVE TISSUE  
CONSTRUCTORS  
CRANIUM  
ELBOW (ANATOMY)  
FEMUR  
FLEXORS  
INTRACRANIAL CAVITY  
JOINTS (ANATOMY)  
KNEE (ANATOMY)  
NARROW  
MASTOIDS  
PELVIS  
SCAPULA  
SCIATIC REGION  
SKULL  
STERNUM  
TIBIA  
ULNA  
VERTEBRAE  
VERTEBRAL COLUMN  
WRIST  
BT #ANATOMY  
RT HYPOKINESIA  
INTERVERTEBRAL DISKS  
SPINE  
STRIATION  
MUSEUMS  
3402 3403  
BT ANTHROPOLOGY  
ARTIFACTS  
BUILDINGS  
COLLECTION  
HISTORIES  
LIBRARIES  
MUSIC  
0410 0506  
BT ARTS  
OCTAVES  
MUSTANG AIRCRAFT  
USE P-51 AIRCRAFT  
MUTATIONS  
0404 0406 0411  
BT #GENETICS  
RT BIOLOGICAL EVOLUTION  
#CELLS (BIOLOGY)  
CHROMOSOMES  
MITOSIS  
NUCLEOGENESIS  
RADIATION HAZARDS  
MYELIN  
0404 0405  
BT #NERVOUS SYSTEM  
RT FATS  
LIPIDS  
MYLAR (TRADEMARK)  
1802 1808  
BT POLYMERIC FILMS  
RT POLYETHYLENE TEREPHTHALATE  
POLYMERS  
MYOCARDIUM  
0404 0405  
BT #ANATOMY  
CARDIOVASCULAR SYSTEM  
HEART  
MUSCLES  
HYOELECTRIC POTENTIALS  
0401 0404 0405  
BT #HYOELECTRICITY  
RT MUSCLES

NASA THESAURUS (ALPHABETICAL LISTING)

MYSTERE 20 AIRCRAFT

POTENTIAL  
 #MYOELECTRICITY  
 0401 0404 0405  
 RT MYOELECTRIC POTENTIALS  
 RT MUSCLES  
 MYOGLOBIN  
 0403 0404  
 RT PIGMENTS  
 #PROTEINS  
 MYOPIA  
 0405 0408  
 RT MIOSIS  
 RT VISION  
 MYSTERE 20 AIRCRAFT  
 0201 0204  
 UF DASSAULT MYSTERE 20 AIRCRAFT  
 BT DASSAULT AIRCRAFT  
 #JET AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT

# N

**N-156 AIRCRAFT**  
 USE F-5 AIRCRAFT  
**N-2501 AIRCRAFT**  
 0204  
 UP NORD N-2501 AIRCRAFT  
 NORD N-2508 AIRCRAFT  
 BT MONOPLANES  
 NORD AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 RT PASSENGER AIRCRAFT  
**N ELECTRONS**  
 2304 2401 2403  
 BT CHARGED PARTICLES  
 ELECTRONS  
 ELEMENTARY PARTICLES  
 #PARTICLES  
 BT BETA PARTICLES  
 CHARGED PARTICLES  
**N-N JUNCTIONS**  
 0904 0906 2401 2403 2405  
 BT SEMICONDUCTOR JUNCTIONS  
**N-P JUNCTIONS**  
 USE P-N JUNCTIONS  
**N-P-N JUNCTIONS**  
 2602 2603  
 BT SEMICONDUCTOR JUNCTIONS  
**N-TYPE SEMICONDUCTORS**  
 2602 2603  
 BT SEMICONDUCTORS (MATERIALS)  
 RT ELECTRONS  
 SEMICONDUCTOR JUNCTIONS  
 SUHL EFFECT  
**NA-300 AIRCRAFT**  
 USE OV-10 AIRCRAFT  
**NAC-60 AIRCRAFT**  
 0204  
 UP NORTH AMERICAN NAC-60 AIRCRAFT  
**NACELLES**  
 0102 0201 0202  
 RT AERODYNAMIC CONFIGURATIONS  
 AIR INTAKES  
 AIRFRAMES  
 COWLINGS  
 DUCTED BODIES  
 ENGINE INLETS  
 EXTERNAL STORES  
 FAIRINGS  
 HOUSINGS  
 NOSE INLETS  
 PERFORATED SHELLS  
 PODS (EXTERNAL STORES)  
 PROTUBERANCES  
 #SHELLS (STRUCTURAL FORMS)  
 WING-FUSELAGE STORES  
**NANC AIRCRAFT**  
 USE NINON AIRCRAFT  
**NAHING**  
 3406 3407  
 RT NORMS  
 RT SPECIFICATIONS  
 STANDARDIZATION  
**NAPHTHALENE**  
 0603 1808  
 BT #HYDROCARBONS  
**NAPHTHENES**  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 CYCLIC HYDROCARBONS  
 #HYDROCARBONS  
**NARCOLEPSY**  
 0405 0408  
 BT #DISEASES  
**NARCOSIS**  
 0404 0408  
 BT #UNCONSCIOUSNESS  
 RT POISONING  
**NARCOTICS**  
 0404 0405 0408 0603  
 RT MORPHINE  
 BT #DRUGS  
 RT PENTOBARBITAL  
 PHENOBARBITAL  
**NASA PROGRAMS**  
 3409  
 RT AGENA B RANGER PROGRAM  
 APOLLO APPLICATIONS PROGRAM  
 APOLLO PROJECT  
 BIOASTRONAUTICAL ORBITAL SPACE  
 SYSTEM  
 CENTAUR PROJECT

EARTH RESOURCES PROGRAM  
 ECHO PROJECT  
 GEMINI PROJECT  
 JUPITER PROJECT  
 MARINER PROGRAM  
 MARS 69 PROJECT  
 MARS 71 PROJECT  
 MERCURY PROJECT  
 NATIONAL LAUNCH VEHICLE PROGRAM  
 NEW MOONS PROJECT  
 NIMBUS PROJECT  
 RANGER PROJECT  
 ROVER PROJECT  
 SATURN PROJECT  
 SCOUT PROJECT  
 SKYLAB PROGRAM  
 SURVEYOR PROJECT  
 SYNCHRONOUS COMMUNICATIONS  
 SATELLITE PROJ  
 TEKTITE PROJECT  
 TIROS PROJECT  
 TITAN PROJECT  
 VANGUARD PROJECT  
 VIKING MARS PROGRAM  
 BT #PROGRAMS  
 RT APOLLO EXTENSION SYSTEM  
 AZUL SATELLITE  
 EARTH RESOURCES TECHNOLOGY  
 SATELLITES  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 GRANTS  
 RESEARCH PROJECTS  
 SPACE PROGRAMS  
 UNIVERSITY PROGRAM  
 VIKING LANDER SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
 VIKING ORBITER 1975  
**NASARR**  
 USE NORTH AMERICAN SEARCH AND RANGING  
 RADAR  
**NATIONAL AIRSPACE UTILIZATION SYSTEM**  
 2102 2103 3409  
 RT AIR NAVIGATION  
 AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIRCRAFT APPROACH SPACING  
 AIRSPACE  
 COLLISION AVOIDANCE  
 FLIGHT PATHS  
 FLIGHT PLANS  
 FLIGHT RULES  
 NATIONAL AVIATION SYSTEM  
 SYSTEMS  
**NATIONAL AVIATION SYSTEM**  
 0203 0702 2101  
 RT AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIR TRANSPORTATION  
 AIRCRAFT APPROACH SPACING  
 FLIGHT RULES  
 #LANDING AIDS  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 #TRAFFIC CONTROL  
**NATIONAL LAUNCH VEHICLE PROGRAM**  
 3102 3103 3409  
 BT NASA PROGRAMS  
 #PROGRAMS  
 RT #LAUNCH VEHICLES  
 #LAUNCHERS  
 #LAUNCHING  
 LAUNCHING SITES  
 SPACE PROGRAMS  
**NATIONAL SEVERE STORMS PROJECT**  
 2001 2003  
 RT #METEOROLOGY  
 TORNADOES  
 #WARNING SYSTEMS  
**NATIONS**  
 3403  
 RT AFGHANISTAN  
 AFRICA  
 ALGERIA  
 ANGOLA  
 ARGENTINA  
 ASIA  
 AUSTRALIA  
 AUSTRIA  
 BELGIUM  
 BOLIVIA  
 BRAZIL  
 BULGARIA

BURMA  
 CAMBODIA  
 CANADA  
 CEYLON  
 CHILE  
 CHINA  
 CHINESE PEOPLES REPUBLIC  
 CITIES  
 COLOMBIA  
 #COMMUNITIES  
 COSTA RICA  
 CZECHOSLOVAKIA  
 DENMARK  
 ECUADOR  
 EGYPT  
 EUROPE  
 FEDERATIONS  
 FINLAND  
 FRANCE  
 FRENCH GUIANA  
 GERMANY  
 GREAT BRITAIN  
 GUINEA  
 HUNGARY  
 ICELAND  
 INDIA  
 INTERNATIONAL LAW  
 IRAN  
 IRELAND  
 ISRAEL  
 ITALY  
 JAPAN  
 JORDAN  
 LAOS  
 LEBANON  
 LIBERIA  
 MALAYA  
 MALAYA  
 MEXICO  
 MINORITIES  
 MONGOLIA  
 MOROCCO  
 NEPAL  
 NETHERLANDS  
 NEW ZEALAND  
 NIGERIA  
 NORWAY  
 PAKISTAN  
 PERU  
 POLAND  
 POLITICS  
 PORTUGAL  
 REGIMES  
 ROMANIA  
 SOUTH AFRICA  
 SPAIN  
 SWEDEN  
 SWITZERLAND  
 SYRIA  
 TANZANIA  
 THAILAND  
 TURKEY  
 U.S.S.R.  
 UNITED NATIONS  
 UNITED STATES OF AMERICA  
 VENEZUELA  
 VIETNAM  
 YEMEN  
 YUGOSLAVIA  
**NATURAL FREQUENCIES**  
 USE RESONANT FREQUENCIES  
**NATURAL SATELLITES**  
 3001 3005 3009  
 (EXCLUDES PLANETS)  
 RT IAPETUS  
 MOON  
 PHOBOS  
 BT #CELESTIAL BODIES  
 #SATELLITES  
 RT ARTIFICIAL SATELLITES  
 CYRILLID METEORIDS  
 EARTH-MOON SYSTEM  
 EARTH SATELLITES  
 METEORIDS  
 PLANETS  
 ROCHE LIMIT  
 SATURN RINGS  
 SOLAR SYSTEM  
 TEKTITES  
**NAUSEA**  
 0401 0405 0408  
 RT ANTIEMETICS AND ANTINAUSEANTS  
 MOTION SICKNESS

# NAVAHO MISSILE

VOMITING  
NAVAHO MISSILE  
3101 3401  
BT CRUISE MISSILES  
\*MISSILES  
RAMJET MISSILES  
SURFACE TO SURFACE MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES  
MULTISTAGE ROCKET VEHICLES  
RAMJET ENGINES  
NAVIER-STOKES EQUATION  
1201 1202 1902  
BT \*EQUATIONS OF MOTION  
RT BURGER EQUATION  
EQUATIONS  
FLOW THEORY  
INCOMPRESSIBLE FLOW  
INCOMPRESSIBLE FLUIDS  
MILNE-THOMSON METHOD  
NEWTONIAN FLUIDS  
OSSEEN APPROXIMATION  
REYNOLDS EQUATION  
VISCOS FLOW  
VISCOS FLUIDS  
\*NAVIGATION  
2103  
UF ONBOARD NAVIGATION  
NT AIR NAVIGATION  
ALL-WEATHER AIR NAVIGATION  
ASTRONAVIGATION  
CELESTIAL NAVIGATION  
DEAD RECKONING  
DECCA NAVIGATION  
DIGITAL NAVIGATION  
DOPPLER NAVIGATION  
GIMBALLESS INERTIAL NAVIGATION  
HYBRID NAVIGATION SYSTEMS  
HYPERBOLIC NAVIGATION  
INERTIAL NAVIGATION  
INTERPLANETARY NAVIGATION  
LORAC NAVIGATION SYSTEM  
LORAN  
LORAN C  
LORAN D  
OMEGA NAVIGATION SYSTEM  
POLAR NAVIGATION  
RADAR NAVIGATION  
RADIO NAVIGATION  
SHORAN  
SPACE NAVIGATION  
SURFACE NAVIGATION  
TACAN  
VHF OMNIRANGE NAVIGATION  
RT AUTOMATIC FLIGHT CONTROL  
AZIMUTH  
DECLINATION  
DISTANCE MEASURING EQUIPMENT  
FIXING  
\*FLIGHT CONTROL  
FLIGHT PATHS  
\*GUIDANCE (MOTION)  
HOMING DEVICES  
LATITUDE MEASUREMENT  
LOCOMOTION  
LONGITUDE MEASUREMENT  
\*NAVIGATION AIDS  
ORBITAL POSITION ESTIMATION  
PLOTING  
POSITION (LOCATION)  
POSITION ERRORS  
POSITIONING  
STAR TRACKERS  
STATIONKEEPING  
SYSTEMS  
TRIANGULATION  
\*NAVIGATION AIDS  
2002 2003 2101 2103 2104  
NT AIRPORT BEACONS  
BEACONS  
COMPASSES  
GYROCOMPASSES  
LASER ALTIMETERS  
MAGNETIC COMPASSES  
NAVIGATION INSTRUMENTS  
OMNIDIRECTIONAL RADIO RANGES  
RADAR BEACONS  
RADIO BEACONS  
RADIO DIRECTION FINDERS  
SELF CALIBRATING OMNIRANGE  
SOLAR COMPASSES  
RT ACCORDION PROJECT  
AIDS

AIR NAVIGATION  
AIR TRAFFIC CONTROL  
AIRCRAFT EQUIPMENT  
\*AIRCRAFT INSTRUMENTS  
AIRCRAFT SAFETY  
AIRPORTS  
ALL-WEATHER AIR NAVIGATION  
ALTIMETERS  
APPROACH INDICATORS  
ATTITUDE INDICATORS  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC PILOTS  
BUOYS  
\*CHARTS  
DECCA NAVIGATION  
\*DISPLAY DEVICES  
DISTANCE MEASURING EQUIPMENT  
\*FLIGHT CONTROL  
FLIGHT PATHS  
GYROSTABILIZERS  
HEAD-UP DISPLAYS  
HELIPORTS  
HOMING DEVICES  
HYBRID NAVIGATION SYSTEMS  
INERTIAL NAVIGATION  
\*LANDING AIDS  
LASER RANGE FINDERS  
LORAC NAVIGATION SYSTEM  
LORAN  
LORAN C  
LORAN D  
\*MAPS  
MARS  
MILITARY AIR FACILITIES  
\*NAVIGATION  
PLOTTERS  
POSITION INDICATORS  
RADIO NAVIGATION  
RANGE FINDERS  
SEXTANTS  
SHORAN  
SOLAR SENSORS  
SONAR  
STAR TRACKERS  
SURFACE NAVIGATION  
TACAN  
VHF OMNIRANGE NAVIGATION  
WEATHER  
NAVIGATION INSTRUMENTS  
2103 2104  
NT COMPASSES  
GYROCOMPASSES  
MAGNETIC COMPASSES  
SOLAR COMPASSES  
BT \*NAVIGATION AIDS  
RT AIRCRAFT EQUIPMENT  
\*AIRCRAFT INSTRUMENTS  
ALTIMETERS  
\*FLIGHT CONTROL  
\*FLIGHT INSTRUMENTS  
GIMBALLESS INERTIAL NAVIGATION  
HORIZON SCANNERS  
HYBRID NAVIGATION SYSTEMS  
INERTIAL PLATFORMS  
INSTRUMENTS  
KALMAN-SCHMIDT FILTERING  
LASER RANGE FINDERS  
LORAC NAVIGATION SYSTEM  
LORAN  
\*MEASURING INSTRUMENTS  
POSITION INDICATORS  
\*RADAR  
SOLAR SENSORS  
STAR TRACKERS  
NAVIGATION SATELLITES  
2104 3107  
NT EXPLORER 22 SATELLITE  
NAVSTAR SATELLITES  
TRANSIT 1A SATELLITE  
TRANSIT 2A SATELLITE  
TRANSIT 4A SATELLITE  
TRANSIT 5A SATELLITE  
TRANSIT ATTITUDE CONTROL SATELLITE  
TRANSIT 1B SATELLITE  
TRANSIT 3B SATELLITE  
TRANSIT 4B SATELLITE  
TRANSIT SATELLITES  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
\*SATELLITES  
\*UNMANNED SPACECRAFT  
RT ACTIVE SATELLITES

# NASA THESAURUS (ALPHABETICAL LISTING)

APPLICATIONS TECHNOLOGY SATELLITES  
GEODETIC SATELLITES  
LOCATES SYSTEM  
METEOROLOGICAL SATELLITES  
\*MILITARY SPACECRAFT  
PASSIVE SATELLITES  
SATELLITE NAVIGATION SYSTEMS  
SATELLITE NETWORKS  
SYNCHRONOUS SATELLITES  
NAVIGATORS  
0502 2103  
BT \*PERSONNEL  
RT FLIGHT CREWS  
FLYING PERSONNEL  
NAVION AIRCRAFT  
0201 0204  
NT G-1 AIRCRAFT  
RT AIRCRAFT  
NAVION G-1 AIRCRAFT  
USE G-1 AIRCRAFT  
NAVION RANGEMASTER AIRCRAFT  
USE G-1 AIRCRAFT  
NAVSTAR SATELLITES  
2104 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
NAVIGATION SATELLITES  
\*SATELLITES  
\*UNMANNED SPACECRAFT  
RT ACTIVE SATELLITES  
APPLICATIONS TECHNOLOGY SATELLITES  
GEODETIC SATELLITES  
SATELLITE NETWORKS  
NAVY  
3401  
BT ARMED FORCES  
NC-130 AIRCRAFT  
USE C-130 AIRCRAFT  
NEAR INFRARED RADIATION  
1404 2310 2402 2903  
(0.75 TO 3 MICRONS)  
BT \*ELECTROMAGNETIC RADIATION  
INFRARED RADIATION  
RT FAR INFRARED RADIATION  
LIGHT (VISIBLE RADIATION)  
RADIATIVE HEAT TRANSFER  
RADIATIVE TRANSFER  
TERRESTRIAL RADIATION  
THERMAL RADIATION  
NEAR ULTRAVIOLET RADIATION  
1404 2903  
(2000 TO 4000 ANGSTROMS)  
BT \*ELECTROMAGNETIC RADIATION  
\*IONIZING RADIATION  
ULTRAVIOLET RADIATION  
RT FAR ULTRAVIOLET RADIATION  
LIGHT (VISIBLE RADIATION)  
NEBRASKA  
1305  
BT UNITED STATES OF AMERICA  
NEBULAE  
3001 3009  
NT CASSIOPEIA A  
CRAB NEBULA  
PLANETARY NEBULAE  
BT \*CELESTIAL BODIES  
RT GALAXIES  
INTERSTELLAR MATTER  
OPIK THEORY  
SOLAR CORONA  
SUPERNOVAE  
HECK (ANATOMY)  
0404 0506 0508  
BT \*ANATOMY  
RT VERTEBRAE  
NEEDLE BEARINGS  
1501 1504  
BT \*BEARINGS  
RT ANTI-FRICTION BEARINGS  
BALL BEARINGS  
ROLLER BEARINGS  
NEEDLES  
0403 1504 1704  
RT DENDRITIC CRYSTALS  
SEWING  
SINGLE CRYSTALS  
SURGICAL INSTRUMENTS  
NEEL TEMPERATURE  
2307  
BT \*TEMPERATURE  
RT ANTIFERROMAGNETISM  
MAGNETIC PERMEABILITY

# NASA THESAURUS (ALPHABETICAL LISTING)

#PHASE TRANSFORMATIONS  
SPECIFIC HEAT  
THERMAL EXPANSION  
NEEMAN-GELLMAN THEORY  
2403 2405  
RT THEORIES  
NEGATIVE CONDUCTANCE  
1001 2302  
RT AVALANCHE DIODES  
GALLIUM ARSENIDES  
GUNN EFFECT  
TUNNEL DIODES  
NEGATIVE FEEDBACK  
1001 1003 2304  
UP DEGENERATIVE FEEDBACK  
NT SENSORY FEEDBACK  
BT #FEEDBACK  
RT #AUTOMATIC CONTROL  
DAMPING  
DEGENERATION  
FEEDBACK CONTROL  
NONLINEAR FEEDBACK  
OSCILLATORS  
TRANSFER FUNCTIONS  
NEGATIVE RESISTANCE CIRCUITS  
0906 1001  
BT #CIRCUITS  
RT NEGATIVE RESISTANCE DEVICES  
TUNNEL DIODES  
NEGATIVE RESISTANCE DEVICES  
0906 1001  
RT GALLIUM ARSENIDES  
GUNN EFFECT  
NEGATIVE RESISTANCE CIRCUITS  
NEGATONS  
PARAMETRIC AMPLIFIERS  
RAMSAUER EFFECT  
NEGATONS  
2304 2403  
BT CHARGED PARTICLES  
ELECTRONS  
ELEMENTARY PARTICLES  
#PARTICLES  
RT NEGATIVE RESISTANCE DEVICES  
NEOBUTAL (TRADEMARK)  
0405 0408 1808  
BT #ALIPHATIC COMPOUNDS  
#DRUGS  
KETONES  
#SODIUM COMPOUNDS  
PENTOBARBITAL SODIUM  
NEODYMIUM  
0603 1703  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS  
NEODYMIUM ALLOYS  
1701  
BT #ALLOYS  
RARE EARTH ALLOYS  
NEODYMIUM COMPOUNDS  
0601 0603 1704  
BT #RARE EARTH COMPOUNDS  
RT METAL COMPOUNDS  
NEODYMIUM ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RARE EARTH ELEMENTS  
NEON  
0603 1807  
NT LIQUID NEON  
NEON ISOTOPES  
BT #CHEMICAL ELEMENTS  
#GASES  
RARE GASES  
NEON ISOTOPES  
0603 1807  
UP NEON 19  
BT #CHEMICAL ELEMENTS  
#GASES  
ISOTOPES  
NEON  
NUCLIDES  
RARE GASES  
NEON 19  
USE NEON ISOTOPES  
NEOPENTANE  
1808  
BT #ALIPHATIC COMPOUNDS  
ALKANES

#HYDROCARBONS  
PENTANES  
NEOPLASMS  
0404 0405  
NT CANCER  
LEUKEMIAS  
BT #DISEASES  
TUMORS  
RT CYSTS  
NEOPRENES  
USE CHLOROPRENE RESINS  
NEPAL  
1305  
RT ASIA  
NATIONS  
NEPHANALYSIS  
1407 2001 2003  
RT CHEMICAL ANALYSIS  
CLOUD COVER  
CLOUD PHYSICS  
CLOUDS (METEOROLOGY)  
METEOROLOGICAL INSTRUMENTS  
#METEOROLOGY  
NEPHELOMETERS  
PRECIPITATION (METEOROLOGY)  
SYNOPTIC MEASUREMENT  
SYNOPTIC METEOROLOGY  
WEATHER FORECASTING  
NEPHELINE  
1804 1806  
BT #ALUMINUM COMPOUNDS  
#MINERALS  
POTASSIUM COMPOUNDS  
SILICATES  
#SILICON COMPOUNDS  
#SODIUM COMPOUNDS  
RT NEPHELINE  
NEPHELINE  
1806  
BT #ALUMINUM COMPOUNDS  
#CHALCOGENIDES  
#MINERALS  
OXIDES  
#SILICON COMPOUNDS  
SILICON OXIDES  
RT NEPHELINE  
NEPHELOMETERS  
1406 2002 2003 2306 2310  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RT NEPHANALYSIS  
#OPTICAL MEASUREMENT  
PHOTOMETERS  
NEPHRITIS  
0405 0408  
BT #DISEASES  
KIDNEY DISEASES  
NEPTUNE (PLANET)  
3001 3008 3009  
BT #CELESTIAL BODIES  
PLANETS  
NEPTUNIUM  
0603 1807  
NT NEPTUNIUM ISOTOPES  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
TRANSURANIUM ELEMENTS  
NEPTUNIUM COMPOUNDS  
0603 1807  
BT ACTINIDE SERIES COMPOUNDS  
RT CHEMICAL COMPOUNDS  
COMPOUNDS  
METAL COMPOUNDS  
NEPTUNIUM ISOTOPES  
0603 1703 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NEPTUNIUM  
NEERNST-ETTINGSHAUSEN EFFECT  
3303 3304  
UP NEERNST HEAT THEOREM  
BT GALVANOMAGNETIC EFFECTS  
RT TEMPERATURE EFFECTS  
THERMOMAGNETIC EFFECTS

# NETWORKS

NEERNST GENERATORS  
USE THERMOMAGNETIC COOLING  
NEERNST HEAT THEOREM  
USE NEERNST-ETTINGSHAUSEN EFFECT  
NEVA (ENGINE)  
USE NUCLEAR ENGINE FOR ROCKET VEHICLES  
NERVES  
0404 0408  
BT GANGLIA  
#NERVOUS SYSTEM  
RT CAROTID SINUS REFLEX  
#NERVOUS SYSTEM  
0402 0404 0408  
UP VASOMOTOR NERVOUS SYSTEM  
NT AFFERENT NERVOUS SYSTEMS  
AUTONOMIC NERVOUS SYSTEM  
AXONS  
BRAIN  
BRAIN STEM  
CENTRAL NERVOUS SYSTEM  
CEREBELLUM  
CEREBRAL CORTEX  
CEREBRUM  
DIENCEPHALON  
Efferent NERVOUS SYSTEMS  
GANGLIA  
HIPPOCAMPUS  
MYELIN  
NERVES  
NEUROBLASTS  
NEUROGLIA  
NEURONS  
PERIPHERAL NERVOUS SYSTEM  
SPINAL CORD  
SPINE  
SYMPATHETIC NERVOUS SYSTEM  
SYNAPSES  
THALAMUS  
RT ELECTROPHYSIOLOGY  
HOMEOSTASIS  
NEURASTHENIA  
NEUROPSYCHIATRY  
PROPRIOCEPTORS  
SENSE ORGANS  
NETHERLANDS  
1305  
UP HOLLAND  
RT EUROPE  
NATIONS  
NETS  
0403 1811 3204  
NT NEURAL NETS  
RT NETWORKS  
NETWORK ANALYSIS  
0804 1001 1002  
UP TELLEGEN THEORY  
NT CRITICAL PATH METHOD  
RT ANALYZING  
#CIRCUITS  
EQUIVALENT CIRCUITS  
FOSTER THEORY  
GYRATORS  
HYDRAULIC EQUIPMENT  
INSERTION  
KIRCHHOFF LAW OF NETWORKS  
LC CIRCUITS  
NETWORK SYNTHESIS  
NETWORKS  
PATHS  
RC CIRCUITS  
RL CIRCUITS  
RLC CIRCUITS  
SIGNAL FLOW GRAPHS  
NETWORK SYNTHESIS  
1001 2304  
UP TELLEGEN THEORY  
RT #COMMUNICATION THEORY  
EQUIVALENT CIRCUITS  
HYDRAULIC EQUIPMENT  
KIRCHHOFF LAW OF NETWORKS  
LC CIRCUITS  
NETWORK ANALYSIS  
NETWORKS  
RC CIRCUITS  
RICHARDS THEOREM  
RL CIRCUITS  
RLC CIRCUITS  
SWITCHING THEORY  
SYNTHESIS  
TOPOLOGY  
NETWORKS  
0404 0702 0703 0802 0902 1102

# NEUMANN PROBLEM

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #CIRCUITS  
COUPLING CIRCUITS  
DEEP SPACE NETWORK  
DIFFERENTIATORS  
ELECTRIC NETWORKS  
ELECTRIC POWER TRANSMISSION  
GRAPHS (CHARTS)  
GYRATORS  
HYDRAULIC EQUIPMENT  
INTEGRATORS  
MAGNETIC CIRCUITS  
MOSAICS  
NETS  
NETWORK ANALYSIS  
NETWORK SYNTHESIS  
NEURAL NETS  
PNEUMATIC EQUIPMENT  
QUADRUPOLE NETWORKS  
SATELLITE NETWORKS  
SIGNAL FLOW GRAPHS  
TOPOLOGY  
TRACKING NETWORKS  
#TRANSMISSION LINES  
NEUMANN PROBLEM  
1902  
BT #ANALYSIS (MATHEMATICS)  
BOUNDARY VALUE PROBLEMS  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
PROBLEMS  
NEURAL NETS  
0404 0408 0503  
BT NETS  
RT CYBERNETICS  
LOGIC CIRCUITS  
NETWORKS  
NEURASTHENIA  
0401 0405 0408  
BT #DISEASES  
RT #NERVOUS SYSTEM  
NEURISTORS  
0503 0906 2603  
BT #ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
BT BIONICS  
NEURITIS  
0405 0408  
BT #DISEASES  
NEUROBLASTS  
0404 0405  
BT #CELLS (BIOLOGY)  
#NERVOUS SYSTEM  
NEUROGLIA  
0404 0405  
BT #NERVOUS SYSTEM  
TISSUES (BIOLOGY)  
RT #CELLS (BIOLOGY)  
NEUROLOGY  
0401 0404 0405  
UF NEUROSCIENCE  
BT #MEDICAL SCIENCE  
RT BRAIN  
ELECTROPHYSIOLOGY  
LIFE SCIENCES  
NEUROPSYCHIATRY  
THRESHOLDS (PERCEPTION)  
NEUROMUSCULAR TRANSMISSION  
0404  
RT BIOELECTRICITY  
CHOLINESTERASE  
PERIPHERAL NERVOUS SYSTEM  
SYNAPSES  
NEURON TRANSMISSION  
USE BIOELECTRICITY  
NEURONS  
0404 0408  
BT #CELLS (BIOLOGY)  
GANGLIA  
#NERVOUS SYSTEM  
RT SYNCODERS  
NEUROPHYSIOLOGY  
0404 0408  
BT PHYSIOLOGY  
RT GANGLIA  
NEUROPSYCHIATRY  
0404 0405 0408 0410  
BT #MEDICAL SCIENCE

RT HUMAN BEHAVIOR  
MEDICINE  
MENTAL HEALTH  
#NERVOUS SYSTEM  
NEUROLOGY  
PSYCHOTHERAPY  
NEUROSCIENCE  
USE NEUROLOGY  
NEUROSES  
0408 0410  
BT #ABNORMALITIES  
RT FEAR  
FEAR OF FLYING  
PSYCHOSES  
NEUROSPORA  
0404 0409  
BT FUNGI  
#PLANTS (BOTANY)  
RT #GENETICS  
NEUROTIC DEPRESSION  
0408 0410  
RT DEPRESSION  
PSYCHOTIC DEPRESSION  
NEUROTROPISM  
0405 0408  
BT TROPISM  
NEUTRAL BEAMS  
2403 2405  
RT MOLECULAR BEAMS  
NEUTRON BEAMS  
BT #BEAMS (RADIATION)  
PARTICLE BEAMS  
RT ATOMIC BEAMS  
#PARTICLES  
PION BEAMS  
NEUTRAL PARTICLES  
2403 2405  
RT COLD NEUTRONS  
FAST NEUTRONS  
NEUTRONS  
PHOTONEUTRONS  
THERMAL NEUTRONS  
BT #PARTICLES  
RT ELECTRON RECOMBINATION  
NEUTRALIZERS  
0603 1504 1703 1805  
RT #ADDITIVES  
AGENTS  
BUFFERS (CHEMISTRY)  
INHIBITORS  
PRESERVATIVES  
RETARDANTS  
STABILIZERS (AGENTS)  
SUPPRESSORS  
NEUTRINOS  
2403 2405  
BT ELEMENTARY PARTICLES  
#PARTICLES  
RT ANTINEUTRINOS  
LEPTONS  
NEUTRON ABSORBERS  
2202 2403 2405  
BT ABSORBERS (MATERIALS)  
RT CONTROL RODS  
MODERATORS  
POISONING (REACTION INHIBITION)  
#RADIATION ABSORPTION  
RADIATION SHIELDING  
NEUTRON ACTIVATION ANALYSIS  
2403 2405  
BT ACTIVATION ANALYSIS  
CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT MASS SPECTROMETERS  
MICROANALYSIS  
NEUTRON IRRADIATION  
QUALITATIVE ANALYSIS  
QUANTITATIVE ANALYSIS  
SPECTROSCOPIC ANALYSIS  
NEUTRON BEAMS  
2403 2405  
BT #BEAMS (RADIATION)  
ELEMENTARY PARTICLES  
NEUTRAL BEAMS  
NUCLEAR RADIATION  
PARTICLE BEAMS  
RT ATOMIC BEAMS  
NEUTRON IRRADIATION  
#PARTICLES  
PION BEAMS  
PROTON BEAMS

# NASA THESAURUS (ALPHABETICAL LISTING)

NEUTRON COUNTERS  
1406 2203 2403  
UF NEUTRON DETECTORS  
RT NEUTRON SPECTROMETERS  
BT COUNTERS  
#MEASURING INSTRUMENTS  
RADIATION COUNTERS  
RT DOSIMETERS  
GEIGER COUNTERS  
IONIZATION CHAMBERS  
PROPORTIONAL COUNTERS  
SCINTILLATION COUNTERS  
SPARK CHAMBERS  
NEUTRON CROSS SECTIONS  
2403 2405  
RT ABSORPTION CROSS SECTIONS  
NEUTRON DISTRIBUTION  
NEUTRON EMISSION  
NUCLEAR PARTICLES  
SCATTERING CROSS SECTIONS  
STOPPING POWER  
NEUTRON DECAY  
2403 2405  
BT #DECAY  
RT NEUTRON EMISSION  
NEUTRON DETECTORS  
USE NEUTRON COUNTERS  
NEUTRON DIFFRACTION  
2403 2405 2601  
BT DIFFRACTION  
RT CRYSTALLOGRAPHY  
NEUTRON DISTRIBUTION  
2403 2405  
BT #DISTRIBUTION (PROPERTY)  
RT NEUTRON CROSS SECTIONS  
NEUTRON FLUX DENSITY  
NUCLEAR PARTICLES  
NEUTRON EMISSION  
2403 2405  
BT #DECAY  
EMISSION  
#NUCLEAR REACTIONS  
PARTICLE EMISSION  
RADIOACTIVE DECAY  
RT NEUTRON CROSS SECTIONS  
NEUTRON DECAY  
NEUTRON IRRADIATION  
NEUTRONS  
NEUTRON FLUX  
USE FLUX (RATE)  
NEUTRON FLUX DENSITY  
2403 2405  
(NEUTRON EMISSION OR DETECTION RATE  
PER UNIT AREA)  
UF ATMOSPHERIC NEUTRON FLUX DENSITY  
BT FLUX DENSITY  
PARTICLE FLUX DENSITY  
RADIANT FLUX DENSITY  
#RATES (PER TIME)  
RT HIGH FLUX ISOTOPE REACTORS  
IRRADIANCE  
NEUTRON DISTRIBUTION  
NUCLEAR FISSION  
RADIANCE  
RADIANCY  
RADIATION SHIELDING  
NEUTRON IRRADIATION  
2403 2405 2406  
BT #IRRADIATION  
RT ION IRRADIATION  
NEUTRON ACTIVATION ANALYSIS  
NEUTRON BEAMS  
NEUTRON EMISSION  
TRANSUTATION  
NEUTRON PHYSICS  
2403 2405  
RT PHYSICS  
NEUTRON SCATTERING  
2403 2405  
UF LEGENDRE CODE  
BT #NUCLEAR REACTIONS  
NUCLEAR SCATTERING  
#SCATTERING  
RT ELEMENTARY PARTICLES  
NUCLEAR PARTICLES  
RESONANCE SCATTERING  
NEUTRON SOURCES  
2204 2403 2405  
BT RADIATION SOURCES  
RT LINEAR ACCELERATORS  
NUCLEAR FUELS  
NUCLEAR RESEARCH AND TEST REACTORS

# NASA THESAURUS (ALPHABETICAL LISTING)

#PARTICLE ACCELERATORS  
NEUTRON SPECTRA  
1411 2403 2405  
BT ENERGY SPECTRA  
#SPECTRA  
RT NEUTRON SPECTROMETERS  
NEUTRON SPECTROMETERS  
1411 2403 2405  
BT COUNTERS  
#MEASURING INSTRUMENTS  
NEUTRON COUNTERS  
RADIATION COUNTERS  
SPECTROMETERS  
RT NEUTRON SPECTRA  
NEUTRON STARS  
3001 3002  
(EXCLUDES TRACKS OF PARTICLES  
EMANATING FROM A NUCLEAR COLLISION)  
BT #CELESTIAL BODIES  
STARS  
RT STARS  
NEUTRON THERMALIZATION  
2403 2405  
BT #ENERGY ABSORPTION  
MODERATION (ENERGY ABSORPTION)  
THERMALIZATION (ENERGY ABSORPTION)  
NEUTRON TRANSMUTATION  
USE #NUCLEAR REACTIONS  
NEUTRONS  
2401 2403  
NT COLD NEUTRONS  
FAST NEUTRONS  
PHOTONEUTRONS  
THERMAL NEUTRONS  
BT ELEMENTARY PARTICLES  
FERMIONS  
NEUTRAL PARTICLES  
#PARTICLES  
RT CHARGED PARTICLES  
CORPUSCULAR RADIATION  
COSMIC RAYS  
NEUTRON EMISSION  
NUCLEAR RADIATION  
NUCLEI (NUCLEAR PHYSICS)  
NUCLEON POTENTIAL  
NUCLEONS  
RADIATION EFFECTS  
RADIATION SHIELDING  
NEVADA  
1305  
BT UNITED STATES OF AMERICA  
NEVUS  
0402 0404  
RT SKIN (ANATOMY)  
NEW HAMPSHIRE  
1305  
BT UNITED STATES OF AMERICA  
NEW JERSEY  
1305  
BT UNITED STATES OF AMERICA  
NEW MEXICO  
1305  
BT UNITED STATES OF AMERICA  
NEW MOONS PROJECT  
3203 3409  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT NUCLEAR PROPULSION  
STRUCTURAL WEIGHT  
WEIGHT ANALYSIS  
NEW YORK  
1305  
BT UNITED STATES OF AMERICA  
NEW ZEALAND  
1305  
BT #ISLANDS  
PACIFIC ISLANDS  
RT NATIONS  
NEWS  
3405  
RT DOCUMENTATION  
NEWS MEDIA  
0702 3405  
RT DATA ACQUISITION  
INFORMATION  
JOURNALS  
NEWTON  
2308 2311  
RT FORCE  
KINETICS  
NEWTON THEORY

NEWTONIAN FLUIDS  
NONNEWTONIAN FLUIDS  
NEWTON-BOSEMAN LAW  
0101 0102 2311 2801  
BT #LAWS  
RT NEWTON THEORY  
NEWTON PRESSURE LAW  
1203 2311  
BT #LAWS  
RT COMPRESSIBLE FLOW  
LAMINAR FLOW  
NEWTON THEORY  
NEWTONIAN FLUIDS  
PRANDTL-MEYER EXPANSION  
#PRESSURE  
PRESSURE DISTRIBUTION  
NEWTON-RAPHSON METHOD  
1903  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
RT METHODOLOGY  
NEWTON THEORY  
NEWTON SECOND LAW  
2308 2311  
BT KINETICS  
#LAWS  
RT CONSERVATION  
MOMENTUM THEORY  
NEWTON THEORY  
NEWTON THEORY  
2308 2311  
BT KINETICS  
#THEORETICAL PHYSICS  
RT CONSERVATION LAWS  
NEWTON  
NEWTON-BOSEMAN LAW  
NEWTON PRESSURE LAW  
NEWTON-RAPHSON METHOD  
NEWTON SECOND LAW  
NEWTONIAN FLUIDS  
NONNEWTONIAN FLUIDS  
NONRELATIVISTIC MECHANICS  
THEORIES  
NEWTONIAN FLUIDS  
1202 2311  
RT ANISOTROPIC FLUIDS  
FLUIDS  
NAVIER-STOKES EQUATION  
NEWTON  
NEWTON PRESSURE LAW  
NEWTON THEORY  
NONNEWTONIAN FLUIDS  
STRESS-STRAIN-TIME RELATIONS  
VISCOUS FLUIDS  
NR-41 HELICOPTER  
0206  
UF H-41 HELICOPTER  
SENECA HELICOPTER  
BT CESSNA AIRCRAFT  
HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
NICHROME (TRADEMARK)  
0603 1412 1701 1704 2310  
BT #ALLOYS  
NICKEL ALLOYS  
NICKEL  
1703  
UF RANEY NICKEL  
NT NICKEL ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS  
NICKEL ALLOYS  
1701 1704  
NT HASTELLOY (TRADEMARK)  
INCONEL (TRADEMARK)  
KAMACITE  
MONEL (TRADEMARK)  
NICHROME (TRADEMARK)  
NITINOL ALLOYS  
RENE 41  
RENE 63  
RENE 77  
UDINET ALLOYS  
WASPALLOY  
BT #ALLOYS  
RT HEAT RESISTANT ALLOYS  
NIMONIC ALLOYS  
PERMALLOYS (TRADEMARK)  
STAINLESS STEELS

# NIGERIA

NICKEL CADMIUM BATTERIES  
0302 0604 0904  
UF CADMIUM NICKEL BATTERIES  
BT ELECTRIC BATTERIES  
#ELECTROCHEMICAL CELLS  
STORAGE BATTERIES  
RT DRY CELLS  
NICKEL ZINC BATTERIES  
SILVER CADMIUM BATTERIES  
NICKEL COATINGS  
0603 1704  
BT #COATINGS  
METAL COATINGS  
RT CORROSION PREVENTION  
METAL FILMS  
PROTECTIVE COATINGS  
NICKEL COMPOUNDS  
0603 1704 1804  
NT COHENITE  
NICKEL FLUORIDES  
NICKEL OXIDES  
SCHREIBERSITE  
RT CHEMICAL COMPOUNDS  
GROUP 8 COMPOUNDS  
METAL COMPOUNDS  
NICKEL FLUORIDES  
0603 1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
NICKEL COMPOUNDS  
NICKEL ISOTOPES  
0603 1703 1704 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NICKEL  
NUCLIDES  
NICKEL OXIDES  
0603  
BT #CHALCOGENIDES  
METAL OXIDES  
NICKEL COMPOUNDS  
OXIDES  
NICKEL PLATE  
0603 1802 3404  
BT PLATING  
RT ELECTROPLATING  
GOLD COATINGS  
NICKEL STEELS  
1701 1704  
BT #ALLOYS  
IRON ALLOYS  
STEELS  
RT STAINLESS STEELS  
NICKEL ZINC BATTERIES  
0301 0302 0604  
UF ZINC NICKEL BATTERIES  
BT DIRECT POWER GENERATORS  
DRY CELLS  
ELECTRIC BATTERIES  
#ELECTRIC GENERATORS  
#ELECTROCHEMICAL CELLS  
PRIMARY BATTERIES  
STORAGE BATTERIES  
RT NICKEL CADMIUM BATTERIES  
NICOTINAMIDE  
0403 1808  
BT ALKALOIDS  
AMIDES  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
VITAMINS  
NICOTINE  
0408 1808  
BT ALKALOIDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
RT TOBACCO  
NICOTINIC ACID  
0403 1808  
BT #ACIDS  
CARBOXYLIC ACIDS  
#HETEROCYCLIC COMPOUNDS  
PYRIDINES  
VITAMINS  
NIGELLA  
0404 0409  
BT #PLANTS (BOTANY)  
NIGERIA  
1305



## NASA THESAURUS (ALPHABETICAL LISTING)

BT MULTISTAGE ROCKET VEHICLES  
NIKE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS  
NIKE BOOSTER ROCKET ENGINES  
2808 3101  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT NIKE MISSILES  
NIKE ROCKET VEHICLES  
NIKE ROCKETS  
NIKE-CAJUN ROCKET VEHICLE  
3101 3106 3401  
BT MULTISTAGE ROCKET VEHICLES  
NIKE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT CAJUN ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
NIKE-HERCULES MISSILE  
3106 3401  
BT ANTIAIRCRAFT MISSILES  
#MISSILES  
NIKE MISSILES  
SURFACE TO AIR MISSILES  
RT SOLID PROPELLANT ROCKET ENGINES  
NIKE-HYDAC ROCKET VEHICLE  
3106  
BT MULTISTAGE ROCKET VEHICLES  
NIKE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT VEHICLES  
NIKE-IROQUOIS ROCKET VEHICLE  
3106  
BT MULTISTAGE ROCKET VEHICLES  
NIKE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT VEHICLES  
NIKE-JAVELIN ROCKET VEHICLE  
3101 3106 3401  
BT MULTISTAGE ROCKET VEHICLES  
NIKE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT NIKE PROJECT  
SOLID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS  
NIKE MISSILES  
3101 3401  
NT NIKE-AJAX MISSILE  
NIKE-HERCULES MISSILE  
NIKE-ZEUS MISSILE  
BT #MISSILES  
SURFACE TO AIR MISSILES  
RT ANTIAIRCRAFT MISSILES  
ANTIMISSILE MISSILES  
NIKE BOOSTER ROCKET ENGINES  
NIKE ROCKETS  
NIKE X SYSTEMS  
SENTINEL SYSTEM  
NIKE PROJECT  
3106 3401  
BT #PROGRAMS  
PROJECTS  
RT NIKE-AJAX MISSILE  
NIKE-APACHE ROCKET VEHICLE  
NIKE-JAVELIN ROCKET VEHICLE  
NIKE ROCKETS  
NIKE X SYSTEMS  
NIKE ROCKET VEHICLES  
3101 3106 3401  
NT NIKE-APACHE ROCKET VEHICLE  
NIKE-ASP ROCKET VEHICLE  
NIKE-CAJUN ROCKET VEHICLE  
NIKE-HYDAC ROCKET VEHICLE  
NIKE-IROQUOIS ROCKET VEHICLE  
NIKE-JAVELIN ROCKET VEHICLE  
NIKE-TOAHAWK ROCKET VEHICLE  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT NIKE BOOSTER ROCKET ENGINES  
NIKE ROCKETS  
NIKE ROCKETS  
3101 3106 3401  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT NIKE BOOSTER ROCKET ENGINES  
NIKE MISSILES  
NIKE PROJECT  
NIKE ROCKET VEHICLES

NIKE-TORAHAWK ROCKET VEHICLE  
3106  
BT MULTISTAGE ROCKET VEHICLES  
NIKE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
NIKE X SYSTEMS  
3101 3401  
BT MISSILE SYSTEMS  
#WEAPON SYSTEMS  
RT ANTIMISSILE MISSILES  
#MISSILES  
NIKE MISSILES  
NIKE PROJECT  
NIKE-ZEUS MISSILE  
SURFACE TO AIR MISSILES  
NIKE-ZEUS MISSILE  
3101 3106 3401  
UP ZEUS MISSILE  
BT ANTIMISSILE MISSILES  
#MISSILES  
NIKE MISSILES  
SURFACE TO AIR MISSILES  
RT NIKE X SYSTEMS  
SOLID PROPELLANT ROCKET ENGINES  
SPRINT MISSILE  
TX-135 ENGINE  
NIMBOSTRATUS CLOUDS  
1301 2003  
UP NIMBUS CLOUDS  
BT #CLOUDS  
CLOUDS (METEOROLOGY)  
RT CUMULONIMBUS CLOUDS  
NIMBUS  
PRECIPITATION (METEOROLOGY)  
STRATUS CLOUDS  
NIMBUS  
1301 1302 2003  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT NIMBOSTRATUS CLOUDS  
NIMBUS SATELLITES  
NIMBUS CLOUDS  
USE NIMBOSTRATUS CLOUDS  
NIMBUS PROJECT  
2004  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT CLOUD PHOTOGRAPHY  
METEOROLOGICAL SATELLITES  
SATELLITE OBSERVATION  
NIMBUS 1 SATELLITE  
2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
NIMBUS SATELLITES  
#SATELLITES  
RT CLOUD PHOTOGRAPHY  
THOR AGENA LAUNCH VEHICLE  
NIMBUS 2 SATELLITE  
2003 2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
NIMBUS SATELLITES  
#SATELLITES  
RT CLOUD PHOTOGRAPHY  
THOR AGENA LAUNCH VEHICLE  
NIMBUS 3 SATELLITE  
2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
NIMBUS SATELLITES  
#SATELLITES  
NIMBUS 4 SATELLITE  
2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
NIMBUS SATELLITES  
#SATELLITES  
NIMBUS 5 SATELLITE  
2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
NIMBUS SATELLITES  
#SATELLITES

# NASA THESAURUS (ALPHABETICAL LISTING)

**NIMBUS 6 SATELLITE**  
 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 NIMBUS SATELLITES  
 #SATELLITES  
**NIMBUS SATELLITES**  
 2004 3107  
 NT NIMBUS 1 SATELLITE  
 NIMBUS 2 SATELLITE  
 NIMBUS 3 SATELLITE  
 NIMBUS 4 SATELLITE  
 NIMBUS 5 SATELLITE  
 NIMBUS 6 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 BT CLOUD PHOTOGRAPHY  
 ESSA SATELLITES  
 INFRARED PHOTOGRAPHY  
 NIMBUS  
 SATELLITE OBSERVATION  
 THOR AGENA LAUNCH VEHICLE  
**NINONIC ALLOYS**  
 1701 1704  
 BT #ALLOYS  
 HEAT RESISTANT ALLOYS  
 RT IRON ALLOYS  
 NICKEL ALLOYS  
**NINPHE (ENGINE)**  
 USE HYDRAZINE ENGINES  
**NINROD ACCELERATOR**  
 1504 2402 2403  
 BT #PARTICLE ACCELERATORS  
**NIOBATES**  
 0603 1704 1804  
 NT CALCIUM NIOBATES  
 BT #NIOBIUM COMPOUNDS  
 RT EUXENITE  
 OXIDES  
 OXYGEN COMPOUNDS  
**NIOBIUM**  
 1703  
 UP COLUMBIUM  
 NT NIOBIUM ISOTOPES  
 NIOBIUM 95  
 BT #METALS  
 #REFRACTORY MATERIALS  
 REFRACTORY METALS  
 TRANSITION METALS  
**NIOBIUM ALLOYS**  
 1701 1704  
 BT #ALLOYS  
 HEAT RESISTANT ALLOYS  
 #REFRACTORY MATERIALS  
 REFRACTORY METAL ALLOYS  
**NIOBIUM CARBIDES**  
 0603 1808  
 BT CARBIDES  
 #CARBON COMPOUNDS  
 #NIOBIUM COMPOUNDS  
**#NIOBIUM COMPOUNDS**  
 0603  
 NT CALCIUM NIOBATES  
 NIOBATES  
 NIOBIUM CARBIDES  
 NIOBIUM IODIDES  
 NIOBIUM OXIDES  
 NIOBIUM STANNIDES  
 RT GROUP 5B COMPOUNDS  
 METAL COMPOUNDS  
**NIOBIUM IODIDES**  
 0603 1804  
 BT HALIDES  
 #HALOGEN COMPOUNDS  
 IODIDES  
 IODINE COMPOUNDS  
 METAL HALIDES  
 #NIOBIUM COMPOUNDS  
**NIOBIUM ISOTOPES**  
 1703 2406  
 NT NIOBIUM 95  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NIOBIUM  
 NUCLIDES  
 #REFRACTORY MATERIALS  
 REFRACTORY METALS  
 TRANSITION METALS

**NIOBIUM OXIDES**  
 0603 1804  
 BT #CHALCOGENIDES  
 METAL OXIDES  
 #NIOBIUM COMPOUNDS  
 OXIDES  
**NIOBIUM STANNIDES**  
 0603 1804  
 BT #NIOBIUM COMPOUNDS  
 STANNIDES  
 #TIN COMPOUNDS  
**NIOBIUM 95**  
 0603 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NIOBIUM  
 NIOBIUM ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 #REFRACTORY MATERIALS  
 REFRACTORY METALS  
 TRANSITION METALS  
**NITINOL ALLOYS**  
 1701 1704  
 BT #ALLOYS  
 NICKEL ALLOYS  
 TITANIUM ALLOYS  
**NITRASOL EXPLOSIVES**  
 1808 3302  
 BT EXPLOSIVES  
 #PROPELLANTS  
**NITRATE ESTERS**  
 0603 1808  
 NT ISOPROPYL NITRATE  
 PROPYL NITRATE  
 BT #ALIPHATIC COMPOUNDS  
 #ESTERS  
 #NITROGEN COMPOUNDS  
**NITRATES**  
 0603  
 NT AMMONIUM NITRATES  
 CELLULOSE NITRATE  
 DINITRATES  
 HYDRAZINE NITRATE  
 HYDRAZINE NITROFORM  
 INORGANIC NITRATES  
 METHYL NITRATE  
 NITROFORMS  
 NITROGLYCERIN  
 ORGANIC NITRATES  
 PETN  
 POTASSIUM NITRATES  
 SILVER NITRATES  
 SODIUM NITRATES  
 BT #NITROGEN COMPOUNDS  
**NITRATION**  
 0602 0603  
 BT #CHEMICAL REACTIONS  
 RT DENITROGENATION  
**NITRIC ACID**  
 0603  
 BT #ACIDS  
 #NITROGEN COMPOUNDS  
**NITRIC OXIDE**  
 0603  
 BT #CHALCOGENIDES  
 #NITROGEN COMPOUNDS  
 NITROGEN OXIDES  
 OXIDES  
**NITRIDES**  
 0603 1804  
 NT ALUMINUM NITRIDES  
 BERYLLIUM NITRIDES  
 BORON NITRIDES  
 SILICON NITRIDES  
 TANTALUM NITRIDES  
 TITANIUM NITRIDES  
 ZIRCONIUM NITRIDES  
 BT #NITROGEN COMPOUNDS  
 RT CERAMIC NUCLEAR FUELS  
**NITRIDING**  
 0602 0603  
 BT #CHEMICAL REACTIONS  
 #HARDENING (MATERIALS)  
 #HEAT TREATMENT  
**NITRILES**  
 0603 1808  
 NT ACRYLONITRILES  
 MALONONITRILE  
 PHOSPHONITRILES  
 RT CYANO COMPOUNDS

# #NITROGEN COMPOUNDS

**NITRITES**  
 0603 1808  
 BT #NITROGEN COMPOUNDS  
 RT #ALIPHATIC COMPOUNDS  
**NITRO COMPOUNDS**  
 0603 3302  
 NT NITROBENZENES  
 NITROGLYCERIN  
 NITROGUANIDINE  
 NITROMETHANE  
 NITROPROPANE  
 PICRATES  
 POLYBUTADIENE TETRANITRAMINE  
 TETRYL  
 TRINITRO COMPOUNDS  
 TRINITROTOLUENE  
 BT #NITROGEN COMPOUNDS  
**NITROAMINES**  
 0603  
 BT #ALIPHATIC COMPOUNDS  
 #AMINES  
 #NITROGEN COMPOUNDS  
**NITROBACTER**  
 0407 0412  
 BT BACTERIA  
 #MICROORGANISMS  
 #PLANTS (BOTANY)  
**NITROBENZENES**  
 0603 3302  
 NT TRINITROTOLUENE  
 BT NITRO COMPOUNDS  
 #NITROGEN COMPOUNDS  
**NITROCELLULOSE**  
 USE CELLULOSE NITRATE  
**NITROFLUORAMINES**  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 #AMINES  
 #FLUORINE COMPOUNDS  
 FLUORINE ORGANIC COMPOUNDS  
 FLUORO COMPOUNDS  
 FLUOROAMINES  
 #HALOGEN COMPOUNDS  
 #NITROGEN COMPOUNDS  
 #ORGANIC COMPOUNDS  
**NITROFORMATES**  
 0603 1808  
 BT FORMATES  
 #NITROGEN COMPOUNDS  
**NITROFORMS**  
 0603 1808  
 NT HYDRAZINE NITROFORM  
 BT #ESTERS  
 NITRATES  
 #NITROGEN COMPOUNDS  
 ORGANIC NITRATES  
 RT #ESTERS  
**NITROGEN**  
 1807  
 NT LIQUID NITROGEN  
 NITROGEN ATOMS  
 NITROGEN IONS  
 NITROGEN ISOTOPES  
 NITROGEN 15  
 NITROGEN 16  
 SOLID NITROGEN  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 RT KJELDAHL METHOD  
 NITROGEN PLASMA  
 NITROLYSIS  
 VEGARD-KAPLAN BANDS  
**NITROGEN ATOMS**  
 0603 2405  
 BT #CHEMICAL ELEMENTS  
 NITROGEN  
**#NITROGEN COMPOUNDS**  
 0603 1704 1804 1808  
 NT ACETANILIDE  
 ALKALOIDS  
 ALUMINUM NITRIDES  
 AMIDES  
 AMMONIA  
 AMMONIUM NITRATES  
 ARECOLINE HYDROBROMIDE  
 ATROPINE  
 AZIDES (INORGANIC)  
 AZIDES (ORGANIC)  
 AZO COMPOUNDS  
 BERYLLIUM NITRIDES  
 BETAINES  
 BORON NITRIDES

# NITROGEN DIOXIDE

CAFFEINE  
CARBAMIDES  
CELLULOSE NITRATE  
COLCHICINE  
CYANAMIDES  
CYANO COMPOUNDS  
DIFLUORUREA  
DIISOCYANATES  
DINITRATES  
ERGOTAMINE  
POLIC ACID  
FORMHYDROXAMIC ACID  
FULMINATES  
GUANINES  
HYDRAZINE NITRATE  
HYDRAZINE NITROFORM  
HYDRAZINIUM COMPOUNDS  
HYDRAZOIC ACID  
HYDRAZONES  
HYDROGEN AZIDES  
HYDROGEN CYANIDES  
HYOSCINE  
IMIDES  
IMINES  
INORGANIC NITRATES  
ISOCYANATES  
ISOPROPYL NITRATE  
LIQUID AMMONIA  
LYSERGAMIDE  
LYSERGINE  
METHYL NITRATE  
MORPHINE  
NICOTINAMIDE  
NICOTINE  
NITRATE ESTERS  
NITRATES  
NITRIC ACID  
NITRIC OXIDE  
NITRIDES  
NITRIFES  
NITRO COMPOUNDS  
NITROAMINES  
NITROBENZENES  
NITROFLUORANINES  
NITROFORMATES  
NITROFORMS  
NITROGEN DIOXIDE  
NITROGEN FLUORIDES  
NITROGEN HYDRIDES  
NITROGEN OXIDES  
NITROGEN POLYMERS  
NITROGEN TETROXIDE  
NITROGLYCERIN  
NITROGUANIDINE  
NITROMETHANE  
NITROPROPANE  
NITROSAMINE  
NITROSO COMPOUNDS  
NITROSYL CHLORIDES  
NITROSYL TRIFLUOROACETATE  
NITROUS OXIDES  
NITROXYCHLORIDES  
NITRYL CHLORIDES  
NITRYL FLUORIDES  
ORGANIC NITRATES  
PERM  
PHOSPHONITRILES  
PICRATES  
PILOCARPINE  
POLYBUTADIENE TETRANITRAMINE  
POLYIMIDES  
POTASSIUM NITRATES  
PROPYL NITRATE  
PSEUDOURREA  
RDX  
RESERPINE  
SILICON NITRIDES  
SILVER NITRATES  
SODIUM AZIDES  
SODIUM NITRATES  
SUCCINIMIDES  
TANTALUM NITRIDES  
TETRYL  
THIAZINE (TRADEMARK)  
THIOUREAS  
THIURONIUM  
THYMINE  
TITANIUM NITRIDES  
TRIANHOGUANIDINIUM AZIDE  
TRIANHOGUANIDINIUM HYDRAZONIUM  
AZIDE  
TRISNITRAMINE

TRINITRO COMPOUNDS  
TRINITROTOLUENE  
TROPYL COMPOUNDS  
TRYPTOPHAN  
URACIL  
UREAS  
URIC ACID  
XANTHINES  
ZIRCONIUM NITRIDES  
RT CHEMICAL COMPOUNDS  
CYANIDES  
GROUP 5A COMPOUNDS  
NITROGEN DIOXIDE  
0603 1804  
BT #CHALCOGENIDES  
#NITROGEN COMPOUNDS  
NITROGEN OXIDES  
OXIDES  
NITROGEN FLUORIDES  
0603  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#NITROGEN COMPOUNDS  
NITROGEN HYDRIDES  
0603 1804  
BT HYDRIDES  
#HYDROGEN COMPOUNDS  
#NITROGEN COMPOUNDS  
RT AMMONIA  
HYDRAZOIC ACID  
NITROGEN IONS  
0603 1804  
BT #CHEMICAL ELEMENTS  
#IONS  
NITROGEN  
NITROGEN ISOTOPES  
2406  
BT NITROGEN 15  
NITROGEN 16  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NITROGEN  
NUCLIDES  
NITROGEN OXIDES  
0603  
NT NITRIC OXIDE  
NITROGEN DIOXIDE  
NITROGEN TETROXIDE  
NITROUS OXIDES  
BT #CHALCOGENIDES  
#NITROGEN COMPOUNDS  
OXIDES  
NITROGEN PLASMA  
2502  
BT #PLASMAS (PHYSICS)  
RT NITROGEN  
NITROGEN POLYMERS  
0603 1810  
BT #NITROGEN COMPOUNDS  
RT POLYMERS  
NITROGEN TETROXIDE  
0603 1804  
BT #CHALCOGENIDES  
#NITROGEN COMPOUNDS  
OXIDES  
RT LIQUID ROCKET PROPELLANTS  
ROCKET OXIDIZERS  
NITROGEN 15  
0603 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NITROGEN  
NITROGEN ISOTOPES  
NUCLIDES  
NITROGEN 16  
0603 1807 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NITROGEN  
NITROGEN ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
NITROGLYCERIN  
0603 3302  
BT #ESTERS  
NITRATES  
NITRO COMPOUNDS  
#NITROGEN COMPOUNDS  
ORGANIC NITRATES

# NASA THESAURUS (ALPHABETICAL LISTING)

RT DOUBLE BASE PROPELLANTS  
DOUBLE BASE ROCKET PROPELLANTS  
DYNAMITE  
EXPLOSIVES  
GLYCERIDES  
GLYCEROLS  
NITROGUANIDINE  
0603 3302  
UF HBNQ  
BT NITRO COMPOUNDS  
#NITROGEN COMPOUNDS  
RT EXPLOSIVES  
SOLID PROPELLANTS  
NITROLYSIS  
0602  
BT #CHEMICAL REACTIONS  
DECOMPOSITION  
RT NITROGEN  
NITROMETHANE  
0603 3302  
BT NITRO COMPOUNDS  
#NITROGEN COMPOUNDS  
RT EXPLOSIVES  
NITRONIUM COMPOUNDS  
0603  
NT NITRONIUM PERCHLORATE  
NITRONIUM PERCHLORATE  
0603 2702  
BT CHLORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
NITRONIUM COMPOUNDS  
PERCHLORATES  
RT ROCKET OXIDIZERS  
NITROPROPANE  
1808  
BT #ALIPHATIC COMPOUNDS  
ALKANES  
#HYDROCARBONS  
NITRO COMPOUNDS  
#NITROGEN COMPOUNDS  
RT PROPANE  
NITROSAMINE  
1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
#NITROGEN COMPOUNDS  
NITROSO COMPOUNDS  
0603  
BT #NITROGEN COMPOUNDS  
RT #ORGANIC COMPOUNDS  
NITROSYL CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#NITROGEN COMPOUNDS  
NITROSYL TRIFLUOROACETATE  
1808  
BT ACETATES  
#ALIPHATIC COMPOUNDS  
#ESTERS  
#NITROGEN COMPOUNDS  
NITROSYLS  
0603  
NITROUS OXIDES  
1804  
BT #CHALCOGENIDES  
#NITROGEN COMPOUNDS  
NITROGEN OXIDES  
OXIDES  
NITROXYCHLORIDES  
1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#NITROGEN COMPOUNDS  
NITRYL CHLORIDES  
1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#NITROGEN COMPOUNDS  
NITRYL FLUORIDES  
1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
#NITROGEN COMPOUNDS  
NOBELIUM  
0603 1703 2406

# **BASA THESAURUS (ALPHABETICAL LISTING)**

BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPIES  
 #METALS  
 NUCLIDES  
 RADIOACTIVE ISOTOPIES  
 TRANSURANIUM ELEMENTS  
 NOBLE GASES  
 USE BARE GASES  
 NOBLE METALS  
 0603  
 UF PRECIOUS METALS  
 NT GOLD  
 GOLD ISOTOPIES  
 GOLD 198  
 RUTHENIUM  
 RUTHENIUM ISOTOPIES  
 SILVER  
 SILVER ISOTOPIES  
 BT #METALS  
 RT GROUP 1B COMPOUNDS  
 #METALS  
 NOCTILUCENCE  
 USE LUMINESCENCE  
 NOCTILUCENT CLOUDS  
 0605 1302 2003  
 BT #CLOUDS  
 CLOUDS (METEOROLOGY)  
 RT LUMINESCENCE  
 NOCTURNAL VARIATIONS  
 1902  
 BT MAGNETIC VARIATIONS  
 PERIODIC VARIATIONS  
 #VARIATIONS  
 RT DIURNAL VARIATIONS  
 GEOMAGNETIC MICROPULSATIONS  
 GEOMAGNETIC PULSATIONS  
 NODES (STANDING WAVES)  
 1901 2402  
 RT ANTINODES  
 HARMONICS  
 RESONANT FREQUENCIES  
 STANDING WAVES  
 #VIBRATION  
 WAVELENGTHS  
 WAVES  
 MODULES  
 0404 0409  
 RT LEGUMINOUS PLANTS  
 #PARTICLES  
 SPHERES  
 SPHERULITES  
 NOISE  
 0704  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BACKGROUND NOISE  
 CONTINUOUS NOISE  
 ELECTROMAGNETIC NOISE  
 HUM  
 INFORMATION THEORY  
 NOISE (SOUND)  
 NOISE PROPAGATION  
 NOISE SPECTRA  
 RANDOM NOISE  
 SIGNAL TO NOISE RATIOS  
 SPATIAL FILTERING  
 WHITE NOISE  
 NOISE (SOUND)  
 0704 0710 2402  
 UF NOISE HAZARDS  
 RT AERODYNAMIC NOISE  
 AIRCRAFT NOISE  
 ENGINE NOISE  
 JET AIRCRAFT NOISE  
 ROCKET ENGINE NOISE  
 SONIC BOOMS  
 THERMAL NOISE  
 BT #ELASTIC WAVES  
 SOUND WAVES  
 RT ACOUSTICS  
 AEOLIAN TONES  
 AIRCRAFT HAZARDS  
 AUDITORY STIMULI  
 BACKGROUND NOISE  
 #ECHOES  
 FLIGHT HAZARDS  
 HUMAN FACTORS ENGINEERING  
 HYPERSONIC SHOCK  
 JET BLAST EFFECTS

LOUDNESS  
 MUFFLERS  
 NOISE  
 NOISE INJURIES  
 NOISE INTENSITY  
 NOISE REDUCTION  
 NOISE SPECTRA  
 NOISE TOLERANCE  
 OPERATIONAL HAZARDS  
 RANDOM NOISE  
 RANDOM VIBRATION  
 REVERBERATION  
 SHOCK WAVES  
 SOUND PRESSURE  
 UNDERWATER ACOUSTICS  
 WHITE NOISE  
 NOISE ATTENUATION  
 USE NOISE REDUCTION  
 NOISE ELIMINATION  
 USE NOISE REDUCTION  
 NOISE HAZARDS  
 USE #HAZARDS  
 NOISE (SOUND)  
 NOISE INJURIES  
 0203 3203  
 BT #INJURIES  
 RT EAR PROTECTORS  
 NOISE (SOUND)  
 NOISE INTENSITY  
 NOISE TOLERANCE  
 NOISE INTENSITY  
 0203 1406 2301  
 RT AIRCRAFT NOISE  
 AUDITORY STIMULI  
 ELECTROMAGNETIC NOISE  
 INTENSITY  
 NOISE (SOUND)  
 NOISE INJURIES  
 NOISE METERS  
 NOISE REDUCTION  
 NOISE SPECTRA  
 PSYCHOACOUSTICS  
 SIRENS  
 SOUND INTENSITY  
 NOISE MEASUREMENT  
 USE ACOUSTIC MEASUREMENTS  
 NOISE METERS  
 1406 2301  
 (LIMITED TO ACOUSTIC NOISE)  
 BT #MEASURING INSTRUMENTS  
 RT ACOUSTIC MEASUREMENTS  
 FIELD INTENSITY METERS  
 NOISE INTENSITY  
 PRESSURE MEASUREMENTS  
 NOISE PROPAGATION  
 0710 2301  
 RT ACOUSTICS  
 COHERENCE COEFFICIENT  
 FAR FIELDS  
 NOISE  
 NOISE SPECTRA  
 SIGNAL TO NOISE RATIOS  
 SOUND PROPAGATION  
 NOISE REDUCTION  
 0702 0704 1001 2301 2402  
 UF NOISE ATTENUATION  
 NOISE ELIMINATION  
 NOISE SUPPRESSORS  
 RT ACOUSTIC ATTENUATION  
 ACOUSTIC DUCTS  
 ACOUSTICS  
 AERODYNAMIC NOISE  
 AIRCRAFT NOISE  
 EAR PROTECTORS  
 ECHO SUPPRESSORS  
 ELECTRICAL GROUNDING  
 #ELECTROMAGNETIC INTERFERENCE  
 ELECTROMAGNETIC NOISE  
 FLIGHT RULES  
 ISOLATORS  
 JET AIRCRAFT NOISE  
 LOUDNESS  
 MUFFLERS  
 NOISE (SOUND)  
 NOISE INTENSITY  
 REDUCTION  
 SHOCK WAVE ATTENUATION  
 SILENCE  
 SQUELCH CIRCUITS  
 SUPPRESSORS  
 VIBRATION ISOLATORS

## **NONADIABATIC THEORY**

NOISE SPECTRA  
 0704 2402  
 BT #SPECTRA  
 RT BACKGROUND NOISE  
 ELECTROMAGNETIC COMPATIBILITY  
 ELECTROMAGNETIC NOISE  
 ELECTROMAGNETIC SPECTRA  
 NOISE  
 NOISE (SOUND)  
 NOISE INTENSITY  
 NOISE PROPAGATION  
 NOISE THRESHOLD  
 NOISE TOLERANCE  
 RADIATION SPECTRA  
 RANDOM NOISE  
 RANDOM SIGNALS  
 SHOCK SPECTRA  
 SIGNAL TO NOISE RATIOS  
 WHITE NOISE  
 NOISE STORMS  
 0704 0710 2402  
 BT #STORMS  
 RT COSMIC NOISE  
 ELECTROMAGNETIC NOISE  
 IONOSPHERIC STORMS  
 MAGNETIC STORMS  
 RADIO FREQUENCY INTERFERENCE  
 SOLAR STORMS  
 NOISE SUPPRESSORS  
 USE NOISE REDUCTION  
 NOISE TEMPERATURE  
 0704 2402  
 BT #TEMPERATURE  
 RT ELECTROMAGNETIC NOISE  
 ELECTRON ENERGY  
 ELECTRON STATES  
 TEMPERATURE MEASUREMENT  
 THERMAL NOISE  
 NOISE THRESHOLD  
 0704 0902 2402  
 RT AUDITORY PERCEPTION  
 BACKGROUND NOISE  
 NOISE SPECTRA  
 SIGNAL TO NOISE RATIOS  
 THRESHOLDS  
 NOISE TOLERANCE  
 0408 0506  
 RT #HAZARDS  
 HUMAN TOLERANCES  
 NOISE (SOUND)  
 NOISE INJURIES  
 NOISE SPECTRA  
 TOLERANCES (PHYSIOLOGY)  
 NONAD LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 SINGLE STAGE ROCKET VEHICLES  
 RT ATLAS LAUNCH VEHICLES  
 LIQUID PROPELLANT ROCKET ENGINES  
 NOMENCLATURES  
 3405  
 RT DEFINITION  
 DESCRIPTIONS  
 #ECONOMICS  
 SEMANTICS  
 SYMBOLS  
 TERMINOLOGY  
 NOMINAL VALUES  
 USE APPROXIMATION  
 MONOGRAMS  
 USE MONOGRAMS  
 MONOGRAMS  
 1902  
 UF ISOPLETHS  
 MONOGRAMS  
 BT NUMERICAL ANALYSIS  
 RT #CHARTS  
 GRAPHS (CHARTS)  
 NONABORANE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 #BORON COMPOUNDS  
 ORGANIC BORON COMPOUNDS  
 NONADIABATIC CONDITIONS  
 USE ADIABATIC CONDITIONS  
 NONADIABATIC THEORY  
 1203 2307  
 RT ADIABATIC EQUATIONS  
 CHARGED PARTICLES  
 ENERGY DISSIPATION  
 IONIZATION CROSS SECTIONS

# NONANES

MAGNETIC DISTURBANCES  
THEORIES  
WAVE PROPAGATION

NONANES  
1807 1808  
BT #ALIPHATIC COMPOUNDS  
ALKANES  
#HYDROCARBONS

NONAXISYMMETRY  
USE ASYMMETRY

NONCONDENSIBLE GASES  
1203 1807  
BT #GASES  
RT CRITICAL TEMPERATURE  
GAS-LIQUID INTERACTIONS  
LIQUEFACTION

NONCONDUCTORS  
USE ELECTRICAL INSULATION

NONCONSERVATIVE FORCES  
2311  
RT CONSERVATION  
CONSERVATION EQUATIONS  
CONSERVATION LAWS  
CONTINUITY EQUATION  
FORCE

#NONDESTRUCTIVE TESTS  
1106 1108 1505  
UP FLAW DETECTION  
NT PRELAUNCH TESTS  
STATIC FIRING  
RT ADHESION TESTS  
#CHEMICAL TESTS  
DESTRUCTIVE TESTS  
ELECTRONIC EQUIPMENT TESTS  
ENGINE TESTS  
HARDNESS TESTS  
HIGH TEMPERATURE TESTS  
INSPECTION  
LOAD TESTS  
LOW TEMPERATURE TESTS  
MATERIALS TESTS  
QUALITY CONTROL  
RADIOGRAPHY  
RELIABILITY  
STATIC TESTS  
TESTS  
TOLERANCES (MECHANICS)  
ULTRASONIC TESTS  
X RAY INSPECTION

NONELECTROLYTES  
0603 2302  
RT ELECTROLYTES

NONEQUILIBRIUM CONDITIONS  
0404 0406 0601 0602 2401 3304  
BT CONDITIONS  
RT EQUILIBRIUM

NONEQUILIBRIUM DRAG  
USE FRICTION DRAG

NONEQUILIBRIUM FLOW  
1202 1203  
BT #FLUID FLOW  
GAS FLOW  
RT EQUILIBRIUM FLOW  
FLUIDS  
HEAT TRANSMISSION  
NONEQUILIBRIUM PLASMAS  
OSCILLATING FLOW  
QUASI-STEADY STATES  
UNSTEADY FLOW

NONEQUILIBRIUM IONIZATION  
0602 0603  
BT #IONIZATION  
RT NONEQUILIBRIUM PLASMAS  
NONEQUILIBRIUM RADIATION

NONEQUILIBRIUM PLASMAS  
2502  
BT #PLASMAS (PHYSICS)  
RT MAGNETOHYDRODYNAMIC STABILITY  
NONEQUILIBRIUM FLOW  
NONEQUILIBRIUM IONIZATION  
NONEQUILIBRIUM RADIATION  
NONUNIFORM PLASMAS  
#PARTICLES  
PLASMA COMPOSITION  
PLASMA POTENTIALS  
PLASMA RADIATION  
PLASMA SHEATHS  
ROTATING PLASMAS

NONEQUILIBRIUM RADIATION  
2402 2405  
BT #ELECTROMAGNETIC RADIATION  
RT NONEQUILIBRIUM IONIZATION

NONEQUILIBRIUM PLASMAS  
SHOCK WAVE PROPAGATION

NONEUCLIDIAN GEOMETRY  
USE DIFFERENTIAL GEOMETRY

NONFERROUS METALS  
1701 1703 1704  
BT #METALS  
RT #CHEMICAL ELEMENTS  
#CONDUCTORS  
METALLURGY

NONFLAMMABLE MATERIALS  
1804 1805 3301  
RT ASBESTOS  
FIREPROOFING  
INORGANIC MATERIALS  
MATERIALS  
OXIDES  
#REFRACTORY MATERIALS

NONGRAY ATMOSPHERES  
1301 1302 3009  
RT ATMOSPHERES  
BLACK BODY RADIATION  
EMISSION  
GRAY GAS  
NONGRAY GAS  
PLANETARY ATMOSPHERES

NONGRAY GAS  
1301 1302 3005 3303  
BT #GASES  
RT ATMOSPHERES  
BLACK BODY RADIATION  
EMISSION  
HEAT TRANSFER  
NONGRAY ATMOSPHERES  
SPECTRAL EMISSION  
THERMAL RADIATION  
THERMODYNAMICS

NONHOLONOMIC EQUATIONS  
1902  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
RT ANALYTIC FUNCTIONS  
EQUATIONS

NONHOMOGENEITY  
USE INHOMOGENEITY

NONISENTROPICITY  
0603 2003 2404  
RT ENTROPY

NONISOTHERMAL PROCESSES  
USE ISOTHERMAL PROCESSES

NONISOTROPIC PLATES  
USE ANISOTROPIC PLATES

NONISOTROPY  
USE #ANISOTROPY

NONLIFTING VEHICLES  
USE BALLISTIC VEHICLES

NONLINEAR EQUATIONS  
1902  
RT CUBIC EQUATIONS  
DUFFING DIFFERENTIAL EQUATION  
MONGE-AMPERE EQUATION  
QUADRATIC EQUATIONS  
QUARTIC EQUATIONS  
BT #ALGEBRA  
#ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT BORN-INFELD THEORY  
DIFFERENTIAL EQUATIONS  
EQUATIONS  
FIELD THEORY (ALGEBRA)  
INTEGRAL EQUATIONS  
POLYNOMIALS  
ROOTS OF EQUATIONS

NONLINEAR FEEDBACK  
1001 1003  
BT #FEEDBACK  
RT FEEDBACK AMPLIFIERS  
FEEDBACK CONTROL  
NEGATIVE FEEDBACK  
POSITIVE FEEDBACK  
SENSORY FEEDBACK  
TRANSFER FUNCTIONS

NONLINEAR FILTERS  
0902 0905 1002 2402  
RT #ELECTRIC FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
FILTERS  
LINEAR FILTERS  
NONLINEAR SYSTEMS

NONLINEAR PROGRAMMING  
0802 1902  
BT OPERATIONS RESEARCH

# NASA THESAURUS (ALPHABETICAL LISTING)

#RESEARCH  
RT APPLICATIONS OF MATHEMATICS  
CONSTRAINTS  
FORMALISM  
LINEAR PROGRAMMING  
PROGRAMMING

NONLINEAR SYSTEMS  
0804 1001 1003 1504 1902 2311  
(DYNAMIC SYSTEMS HAVING NONLINEAR RESPONSES)  
RT CONTROL EQUIPMENT  
DYNAMIC PROGRAMMING  
LINEAR SYSTEMS  
NONLINEAR FILTERS  
SYSTEMS

NONLINEARITY  
1902 3408  
UP QUASILINEARITY  
RT DIFFERENTIAL EQUATIONS  
#FUNCTIONS (MATHEMATICS)  
LINEARITY  
MAGNETIC AMPLIFIERS  
VARIABILITY  
VOLTERRA EQUATIONS

NONNEWTONIAN FLOW  
1202  
BT #FLUID FLOW  
RT LIQUID FLOW  
STEADY FLOW  
THIXOTROPY  
UNSTEADY FLOW  
VISCOELASTICITY  
VISCOPLASTICITY

NONNEWTONIAN FLUIDS  
0603 2311  
RT COLLOIDS  
FLUIDS  
GELATINS  
GELS  
NEWTON  
NEWTON THEORY  
NEWTONIAN FLUIDS  
RHEOLOGY  
VISCOELASTICITY  
VISCOPLASTICITY  
VISCOUS FLUIDS

NONOHMIC EFFECT  
0902 1001 1002 1202 2304  
RT BARRIER LAYERS  
CONTACT RESISTANCE  
SPACE CHARGE

NONOSCILLATORY ACTION  
2311  
BT #OSCILLATIONS  
RT OSCILLATION DAMPERS  
#OSCILLATORS  
VIBRATION DAMPING

NONPARAMETRIC STATISTICS  
1905  
BT #STATISTICAL ANALYSIS

NONPOLAR GASES  
0603  
BT #GASES  
RT MOLECULAR GASES  
RARE GASES

NONREFLECTION  
USE #ENERGY ABSORPTION

NONRELATIVISTIC MECHANICS  
2308  
RT NEWTON THEORY  
RELATIVITY

NONRESONANCE  
2301 2304 2402  
RT MICROWAVE RESONANCE  
#TRANSMISSION LINES  
TRAVELING WAVES

NONRIGIDITY  
USE FLEXIBILITY

NONSTABILIZED OSCILLATION  
2311  
BT #OSCILLATIONS  
RT OSCILLATION DAMPERS  
#OSCILLATORS  
STABLE OSCILLATIONS  
VIBRATION DAMPING

NONSYNCHRONIZATION  
2311 3407 3408  
RT INTERFERENCE

NONUNIFORM FLOW  
1202  
BT #FLUID FLOW  
RT FLOW CHARACTERISTICS

# NASA TREASURES (ALPHABETICAL LISTING)

GAS FLOW  
 TURBULENT FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 NONUNIFORM MAGNETIC FIELDS  
 1307 2402  
 BT #MAGNETIC FIELDS  
 RT LINES OF FORCE  
 MAGNETIC ANOMALIES  
 MAGNETIC MIRRORS  
 NONUNIFORM PLASMAS  
 2405 2502  
 BT #PLASMAS (PHYSICS)  
 RT LOW DENSITY RESEARCH  
 MAGNETOHYDRODYNAMIC STABILITY  
 NONEQUILIBRIUM PLASMAS  
 #PARTICLES  
 PLASMA COMPOSITION  
 PLASMA OSCILLATIONS  
 PLASMA WAVES  
 RAREFIED PLASMAS  
 NONUNIFORMITY  
 3408  
 RT FLEXIBILITY  
 INHOMOGENEITY  
 IRREGULARITIES  
 #OSCILLATIONS  
 #TURBULENCE  
 NONVISCIOUS FLOW  
 USE TURBULENT FLOW  
 NOON  
 1406 3001  
 RT DAYTIME  
 ZENITH  
 NORADRENALINE  
 0403 0405 0408 1808  
 BT #DRUGS  
 STIMULANT  
 RT NOREPINEPHRINE  
 NORBERGITE  
 1806  
 BT #CHALCOGENIDES  
 #MAGNESIUM COMPOUNDS  
 #MINERALS  
 OXIDES  
 #SILICON COMPOUNDS  
 SILICON OXIDES  
 NORD AIRCRAFT  
 0201 0204 0207  
 NT C-160 AIRCRAFT  
 MH-200 AIRCRAFT  
 MH-260 AIRCRAFT  
 MH-262 AIRCRAFT  
 N-2501 AIRCRAFT  
 NORD 1500 AIRCRAFT  
 RT AIRCRAFT  
 NORD 262 AIRCRAFT  
 USE MH-262 AIRCRAFT  
 NORD 1500 AIRCRAFT  
 0201 0204  
 UP GRIFFON AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 NORD AIRCRAFT  
 RESEARCH AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 NORD N-2501 AIRCRAFT  
 USE N-2501 AIRCRAFT  
 NORD N-2508 AIRCRAFT  
 USE N-2501 AIRCRAFT  
 NOREPINEPHRINE  
 0404 0408 1808  
 BT #DRUGS  
 EPINEPHRINE  
 STIMULANT  
 RT NORADRENALINE  
 NORLEUCINE  
 0403 1808  
 NORMAL DENSITY FUNCTIONS  
 1903 1905  
 UP GAUSSIAN DISTRIBUTIONS  
 NORMAL DISTRIBUTIONS  
 BT #FUNCTIONS (MATHEMATICS)  
 PROBABILITY DENSITY FUNCTIONS  
 #STATISTICAL ANALYSIS  
 RT CONTINUITY (MATHEMATICS)  
 DISCRETE FUNCTIONS  
 HISTOGRAMS  
 NORMAL DISTRIBUTIONS  
 USE NORMAL DENSITY FUNCTIONS  
 NORMAL FORCE DISTRIBUTION  
 USE FORCE DISTRIBUTION

NORMAL SHOCK WAVES  
 0101 1202 1203 2308  
 BT #ELASTIC WAVES  
 SHOCK WAVES  
 RT LONGITUDINAL WAVES  
 MAGNETOHYDRODYNAMIC WAVES  
 OBLIQUE SHOCK WAVES  
 PLANE WAVES  
 SHOCK LAYERS  
 NORMALITY  
 0502 0601 0802 0803 1505 1903  
 RT STATISTICAL TESTS  
 NORMALIZING  
 1704 1905  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT NORMALIZING (HEAT TREATMENT)  
 NORMALIZING (STATISTICS)  
 NORMALIZING (HEAT TREATMENT)  
 1704  
 BT #HEAT TREATMENT  
 RT ANNEALING  
 #HARDENING (MATERIALS)  
 NORMALIZING  
 TEMPERING  
 NORMALIZING (STATISTICS)  
 1905  
 RT EVALUATION  
 NORMALIZING  
 QUALITY CONTROL  
 RATINGS  
 NORMS  
 0410 1902 3406  
 BT NAMING  
 RT AVERAGE  
 MEDIAN (STATISTICS)  
 PSYCHOMETRICS  
 VALUE  
 NORTH AMERICA  
 1305  
 BT #CONTINENTS  
 RT CANADA  
 CENTRAL AMERICA  
 MEXICO  
 UNITED STATES OF AMERICA  
 NORTH AMERICAN AIRCRAFT  
 0201 0204 0207  
 UP NORTH AMERICAN MILITARY AIRCRAFT  
 NT A-2 AIRCRAFT  
 A-5 AIRCRAFT  
 B-70 AIRCRAFT  
 F-86 AIRCRAFT  
 F-100 AIRCRAFT  
 OV-10 AIRCRAFT  
 P-51 AIRCRAFT  
 T-2 AIRCRAFT  
 T-28 AIRCRAFT  
 T-39 AIRCRAFT  
 X-15 AIRCRAFT  
 RT AIRCRAFT  
 NORTH AMERICAN MILITARY AIRCRAFT  
 USE NORTH AMERICAN AIRCRAFT  
 NORTH AMERICAN NAC-60 AIRCRAFT  
 USE NAC-60 AIRCRAFT  
 NORTH AMERICAN SEARCH AND RANGING RADAR  
 0702 0705 3401  
 UP NASARR  
 BT #RADAR  
 SEARCH RADAR  
 RT RANGE AND RANGE RATE TRACKING  
 NORTH ATLANTIC TREATY ORGANIZATION (NATO)  
 3401  
 BT #ORGANIZATIONS  
 RT INTERNATIONAL COOPERATION  
 NORTH CAROLINA  
 1305  
 BT UNITED STATES OF AMERICA  
 NORTH DAKOTA  
 1305  
 BT UNITED STATES OF AMERICA  
 NORTH SEA  
 1305  
 BT SEAS  
 NORTHERN HEMISPHERE  
 1304 1308 2003  
 RT ARCTIC REGIONS  
 RT HEMISPHERES  
 #SOUTHERN HEMISPHERE  
 NORTHERN AIRCRAFT  
 0204 3401  
 UP NORTHROP MILITARY AIRCRAFT

## NOTATION

NT F-5 AIRCRAFT  
 F-89 AIRCRAFT  
 T-38 AIRCRAFT  
 X-21A AIRCRAFT  
 X-21 AIRCRAFT  
 RT AIRCRAFT  
 NORTHROP MILITARY AIRCRAFT  
 USE NORTHROP AIRCRAFT  
 NORTHROP COUNTY ACHONDRIITE  
 1806 3005  
 BT ACHONDRIITES  
 #CELESTIAL BODIES  
 METEORITES  
 STONY METEORITES  
 NORWAY  
 1305  
 RT EUROPE  
 NATIONS  
 NOSE  
 0101 0404 3305  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT NOSE (ANATOMY)  
 NOSES (FOREBODIES)  
 NOSE (ANATOMY)  
 0404  
 BT #ANATOMY  
 FACE (ANATOMY)  
 RESPIRATORY SYSTEM  
 RT HEAD (ANATOMY)  
 NOSE  
 PARANASAL SINUSES  
 SINUSES  
 NOSE CAPS  
 USE NOSE CONES  
 NOSE CONES  
 0102 3303  
 UP NOSE CAPS  
 NT ABLATIVE NOSE CONES  
 ROCKET NOSE CONES  
 BT #CONES  
 #FOREBODIES  
 NOSES (FOREBODIES)  
 RT ABLATIVE MATERIALS  
 BLUNT BODIES  
 CAPS  
 CIRCULAR CONES  
 HALF CONES  
 MISSILE COMPONENTS  
 OGIVES  
 REENTRY SHIELDING  
 #REENTRY VEHICLES  
 #SPACECRAFT COMPONENTS  
 SPACECRAFT SHIELDING  
 SPHERICAL CAPS  
 WARHEADS  
 NOSE INLETS  
 0102 2806  
 BT #INTAKE SYSTEMS  
 RT AIR INTAKES  
 DUCTED BODIES  
 DUCTS  
 HYPERSONIC INLETS  
 NACELLES  
 NOSES (FOREBODIES)  
 SCOOPS  
 SIDE INLETS  
 SUPERSONIC INLETS  
 WATER INTAKES  
 NOSE WHEELS  
 0202  
 BT VEHICLE WHEELS  
 #WHEELS  
 RT #BRAKES (FOR ARRESTING MOTION)  
 LANDING GEAR  
 NOSES (FOREBODIES)  
 0101 3305  
 NT ABLATIVE NOSE CONES  
 NOSE CONES  
 ROCKET NOSE CONES  
 BT #FOREBODIES  
 RT NOSE  
 NOSE INLETS  
 MOSTOC  
 0404 0409  
 BT ALGAE  
 BLUE GREEN ALGAE  
 #PLANTS (BOTANY)  
 THERMOPHILIC PLANTS  
 NOTATION  
 USE CODING

# NOTCH SENSITIVITY

## NOTCH SENSITIVITY

1001 3203 3204  
BT #MECHANICAL PROPERTIES  
#SENSITIVITY  
TOUGHNESS  
RT CHARPY IMPACT TEST  
FATIGUE (MATERIALS)  
IMPACT STRENGTH  
IMPACT TESTS  
NOTCH STRENGTH  
NOTCH TESTS

## NOTCH STRENGTH

1704 3203  
BT #MECHANICAL PROPERTIES  
RT BRITTLENESS  
DUCTILITY  
FATIGUE TESTS  
IMPACT TESTS  
NOTCH SENSITIVITY  
NOTCH TESTS  
STRESS CONCENTRATION

## NOTCH TESTS

3203 3204  
UF NOTCHED METALS  
NOTCHED STEEL  
RT CHARPY IMPACT TEST  
RT BRITTLENESS  
DROP TESTS  
FATIGUE TESTS  
HARDNESS  
IMPACT TESTS  
NOTCH SENSITIVITY  
NOTCH STRENGTH  
STRESS CONCENTRATION  
TESTS

## NOTCHED METALS

USE NOTCH TESTS

## NOTCHED STEEL

USE NOTCH TESTS  
STEELS

## NOTCHES

1502 1503 1504  
RT PASSAGEWAYS  
V GROOVES

## NOVA

3001 3009 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT NOVA LAUNCH VEHICLES  
NOVAE

## NOVA H LAUNCH VEHICLE

3103  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
NOVA LAUNCH VEHICLES  
#ROCKET VEHICLES

## NOVA J LAUNCH VEHICLE

3103  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
NOVA LAUNCH VEHICLES  
#ROCKET VEHICLES

## NOVA LAUNCH VEHICLES

3103 3409  
RT NOVA H LAUNCH VEHICLE  
NOVA J LAUNCH VEHICLE  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES

RT P-1 ROCKET ENGINE  
J-2 ENGINE  
LIQUID PROPELLANT ROCKET ENGINES  
M-1 ENGINE  
NOVA

## NOVAE

2402 2903 3001  
RT HERCULES NOVA  
BT #CELESTIAL BODIES  
STARS  
VARIABLE STARS  
RT NOVA  
SHOCK WAVES  
STELLAR MASS  
STELLAR MASS EJECTION  
SUPERNOVAE

## NOVOCAINE

0403 0405 0408 1808  
BT ANESTHETICS  
#DRUGS

## NOXIOUS MATERIALS

USE CONTAMINANTS

## NOZZLE COEFFICIENT

USE NOZZLE FLOW

## NOZZLE DESIGN

0101 1202 2806 3404  
RT DESIGN  
ENGINE DESIGN  
NOZZLE EFFICIENCY  
NOZZLE FLOW  
NOZZLE GEOMETRY  
NOZZLES

## NOZZLE EFFICIENCY

0101 1202 1203 2311  
BT #EFFICIENCY  
RT NOZZLE DESIGN  
NOZZLE GEOMETRY  
NOZZLE THRUST COEFFICIENTS  
NOZZLES  
POWER EFFICIENCY  
PROPULSIVE EFFICIENCY  
THERMODYNAMIC EFFICIENCY

## NOZZLE EXPANSION

USE GAS EXPANSION  
NOZZLE FLOW

## NOZZLE FLOW

0101 1201 1202 1203  
UF NOZZLE COEFFICIENT  
NOZZLE EXPANSION  
BT #FLUID FLOW  
RT AEROTHERMOCHEMISTRY  
ANNULAR FLOW  
DISCHARGE COEFFICIENT  
EXHAUST GASES  
EXHAUST NOZZLES  
FISSIONABLE MATERIALS  
FLOW GEOMETRY  
FLUID INJECTION  
INJECTORS  
JET FLOW  
NOZZLE DESIGN  
PNEUMATIC PROBES  
SUPERSONIC JET FLOW  
TRANSONIC FLOW

## NOZZLE GEOMETRY

0101 1201 1202 1203 1902 2808  
BT #GEOMETRY  
RT CONICAL NOZZLES  
CONVERGENT-DIVERGENT NOZZLES  
CONVERGENT NOZZLES  
DISCHARGE COEFFICIENT  
DIVERGENT NOZZLES  
MASS FLOW FACTORS  
NOZZLE DESIGN  
NOZZLE EFFICIENCY  
NOZZLE INSERTS  
NOZZLE THRUST COEFFICIENTS  
NOZZLE WALLS  
NOZZLES  
PIPE NOZZLES  
PLUG NOZZLES  
SHROUDED NOZZLES  
SPIKE NOZZLES  
THROATS

## NOZZLE INSERTS

0101 2806 2808  
BT INSERTS  
RT ABLATIVE MATERIALS  
CHOKES  
CONICAL NOZZLES  
CONVERGENT-DIVERGENT NOZZLES  
EXHAUST NOZZLES  
NOZZLE GEOMETRY  
NOZZLE WALLS  
NOZZLES  
ROCKET NOZZLES  
THROATS

## NOZZLE THRUST COEFFICIENTS

1902 2311 2809  
BT #COEFFICIENTS  
RT DISCHARGE COEFFICIENT  
FLOW COEFFICIENTS  
INFLUENCE COEFFICIENT  
NOZZLE EFFICIENCY  
NOZZLE GEOMETRY  
#THRUST  
THRUST VECTOR CONTROL

## NOZZLE WALLS

0101 1201 2806 2808  
BT WALLS  
RT CONICAL NOZZLES  
CONVERGENT NOZZLES  
DIVERGENT NOZZLES  
JET AMPLIFIERS

# NASA THESAURUS (ALPHABETICAL LISTING)

NOZZLE GEOMETRY  
NOZZLE INSERTS  
NOZZLES  
#REFRACTORY MATERIALS  
SHROUDED NOZZLES  
THROATS

## NOZZLES

0101 1110 1201 1202 1501 1504 2806  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ACOUSTIC NOZZLES  
ANNULAR NOZZLES  
ATOMIZERS  
BLOWERS  
CHOKES  
CHOKES (RESTRICTIONS)  
CONICAL NOZZLES  
CONVERGENT-DIVERGENT NOZZLES  
CONVERGENT NOZZLES  
DIVERGENT NOZZLES  
DUAL THRUST NOZZLES  
EXHAUST NOZZLES  
FLOW MEASUREMENT  
FUNNELS  
HYPERSONIC NOZZLES  
INJECTORS  
INLET NOZZLES  
NOZZLE DESIGN  
NOZZLE EFFICIENCY  
NOZZLE GEOMETRY  
NOZZLE INSERTS  
NOZZLE WALLS  
ORIFICES  
OUTLETS  
PIPE NOZZLES  
PLUG NOZZLES  
ROCKET NOZZLES  
SHROUDED NOZZLES  
SONIC NOZZLES  
SPIKE NOZZLES  
SPRAY NOZZLES  
SPRATERS  
SUPERSONIC NOZZLES  
TRANSONIC NOZZLES  
TURBINES  
VENTS  
WIND TUNNEL NOZZLES

## NBX-A REACTOR

USE NBX REACTORS  
NUCLEAR ENGINE FOR ROCKET VEHICLES

## NBX REACTORS

0207 2202 2801  
UF NBX-A REACTOR  
BT LIQUID COOLED REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
WATER COOLED REACTORS  
RT KIWI REACTORS  
NUCLEAR ENGINE FOR ROCKET VEHICLES

## NU FACTOR

2202 2403 2405  
RT POISSON RATIO  
NUCLEAR AUXILIARY POWER UNITS  
0303 2201 2202

## NT FISSION ELECTRIC CELLS

SNAP  
SNAP 9A  
SNAP 10A  
SNAP 1  
SNAP 2  
SNAP 3  
SNAP 4  
SNAP 7  
SNAP 8  
SNAP 11  
SNAP 13  
SNAP 15  
SNAP 17  
SNAP 19  
SNAP 21  
SNAP 23  
SNAP 27  
SNAP 29  
SNAP 50  
SNAP 64  
SNAP 80  
SPACE POWER UNIT REACTORS  
BT #AUXILIARY POWER SOURCES  
#NUCLEAR ELECTRIC POWER GENERATION  
RT NUCLEAR POWER REACTORS  
POWER SUPPLIES

# NASA THESAURUS (ALPHABETICAL LISTING)

RADIOISOTOPE BATTERIES  
SPACECRAFT POWER SUPPLIES  
THERMOELECTRIC GENERATORS  
THERMOELECTRIC POWER GENERATION  
NUCLEAR BINDING ENERGY  
2401 2403 2404 2405  
UP NUCLEAR FORCES  
RT ACTIVATION ENERGY  
ENERGY  
IONIZATION POTENTIALS  
NUCLEAR CAPTURE  
NUCLEAR INTERACTIONS  
NUCLEAR SPIN  
NUCLEAR STRUCTURE  
NUCLEAR CAPTURE  
0710 2401 2402 2403 2405  
NT ELECTRON CAPTURE  
BT #ELEMENTARY PARTICLE INTERACTIONS  
NUCLEAR INTERACTIONS  
#NUCLEAR REACTIONS  
#PARTICLE INTERACTIONS  
RT ACTIVATION ENERGY  
ELECTRON TRANSITIONS  
ENERGY LEVELS  
INTERACTIONS  
#IRRADIATION  
NUCLEAR BINDING ENERGY  
NUCLEAR FISSION  
NUCLEAR FUSION  
#SPIN  
TRANSITION PROBABILITIES  
NUCLEAR CHEMISTRY  
0603 2405  
RT ATOMIC STRUCTURE  
CHEMISTRY  
ISOMERS  
NUCLEAR ENERGY  
PHYSICAL CHEMISTRY  
PLASMA CHEMISTRY  
RADIOCHEMISTRY  
NUCLEAR DEFORMATION  
2405  
BT #DEFORMATION  
NUCLEAR-ELECTRIC MOMENTS  
USE ELECTRIC MOMENTS  
#NUCLEAR ELECTRIC POWER GENERATION  
2201 2204 2301 2405  
UP NUCLEAR POWER GENERATION  
NT ENRICO FERMI ATOMIC POWER PLANT  
FISSION ELECTRIC CELLS  
HALLAM NUCLEAR POWER FACILITY  
KIWI B-1 REACTOR  
KIWI B-4 REACTOR  
KIWI B REACTORS  
KIWI REACTORS  
HL-1 NUCLEAR POWER PLANT  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR POWER PLANTS  
NUCLEAR POWER REACTORS  
PATHFINDER NUCLEAR REACTOR  
PLUTONIUM RECYCLE TEST REACTOR  
SENN REACTOR  
SNAP  
SNAP 9A  
SNAP 10A  
SNAP 1  
SNAP 2  
SNAP 3  
SNAP 4  
SNAP 7  
SNAP 8  
SNAP 11  
SNAP 13  
SNAP 15  
SNAP 17  
SNAP 19  
SNAP 21  
SNAP 23  
SNAP 27  
SNAP 29  
SNAP 50  
SNAP 64  
SNAP 80  
SPACE POWER UNIT REACTORS  
TORY 2-A REACTOR  
TORY 2-C REACTOR  
TORY 2 REACTOR  
BT #ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ENERGY  
NUCLEAR POWER PLANTS  
NUCLEAR POWER REACTORS

NUCLEAR PROPULSION  
NUCLEAR ELECTRIC PROPULSION  
2201 2702 2803  
BT NUCLEAR PROPULSION  
#PROPULSION  
RT ELECTRIC PROPULSION  
ELECTROTHERMAL ENGINES  
ION PROPULSION  
MARINE PROPULSION  
PLASMA PROPULSION  
SPACECRAFT PROPULSION  
NUCLEAR EMULSIONS  
0605 1407  
BT DISPERSIONS  
EMULSIONS  
#MIXTURES  
PHOTOGRAPHIC EMULSIONS  
SOLUTIONS  
RT DOSIMETERS  
RADIATION COUNTERS  
RADIATION MEASURING INSTRUMENTS  
NUCLEAR ENERGY  
0303 2205 2405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP ATOMIC ENERGY  
NUCLEAR POWER  
RT ANNULAR CORE PULSE REACTORS  
ATOMIC THEORY  
CHEMICAL ENERGY  
ENERGY STORAGE  
MOLECULAR ENERGY LEVELS  
NUCLEAR CHEMISTRY  
#NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR EXPLOSIONS  
NUCLEAR FISSION  
NUCLEAR FUELS  
NUCLEAR FUSION  
NUCLEAR HEAT  
#NUCLEAR PHYSICS  
NUCLEAR PROPULSION  
#NUCLEAR REACTIONS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH  
NUCLEAR WARFARE  
NUCLEAR WEAPONS  
NUCLEONICS  
NUCLEAR ENERGY LABORATORIES  
USE #LABORATORIES  
NUCLEAR RESEARCH  
NUCLEAR ENGINE FOR ROCKET VEHICLES  
2202 2204 2405 2808  
UP NERVA (ENGINE)  
NEX-A REACTOR  
BT #ENGINES  
ROCKET ENGINES  
BOOSTER ROCKET ENGINES  
KIWI REACTORS  
NRI REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
PHOEBUS NUCLEAR REACTOR  
ROVER PROJECT  
SUSTAINER ROCKET ENGINES  
WATER COOLED REACTORS  
NUCLEAR EXPLOSION EFFECT  
2405  
RT FALLOUT  
NUCLEAR WEAPONS  
RADIATION EFFECTS  
RADIATION HAZARDS  
NUCLEAR EXPLOSIONS  
2205 2405 3302 3401  
UP ATOMIC EXPLOSIONS  
UNDERGROUND NUCLEAR EXPLOSIONS  
NT THERMONUCLEAR EXPLOSIONS  
BT #EXPLOSIONS  
RT AERIAL EXPLOSIONS  
ARTIFICIAL RADIATION BELTS  
CIVIL DEFENSE  
CRATERING  
FALLOUT  
FIREBALLS  
FISHBOWL OPERATION  
HIGH ENERGY INTERACTIONS  
NUCLEAR ENERGY  
NUCLEAR FISSION  
NUCLEAR FUSION  
NUCLEAR HEAT  
NUCLEAR RADIATION  
#NUCLEAR REACTIONS

## NUCLEAR FUSION

NUCLEAR WARFARE  
NUCLEAR WARHEADS  
NUCLEAR WEAPONS  
RADIATION HAZARDS  
UNDERGROUND EXPLOSIONS  
UNDERWATER EXPLOSIONS  
VELA SATELLITES  
NUCLEAR FISSION  
2405  
BT #DECAY  
#NUCLEAR REACTIONS  
RT CRITICAL EXPERIMENTS  
CRITICAL MASS  
FISSION PRODUCTS  
HIGH ENERGY INTERACTIONS  
NEUTRON FLUX DENSITY  
NUCLEAR CAPTURE  
NUCLEAR ENERGY  
NUCLEAR EXPLOSIONS  
NUCLEAR FUSION  
NUCLEAR RADIATION  
RADIOACTIVE DECAY  
RADIOACTIVE MATERIALS  
SUBCRITICAL MASS  
NUCLEAR FORCES  
USE NUCLEAR BINDING ENERGY  
NUCLEAR FUEL BURNUP  
2202 2203 2204  
BT NUCLEAR FUELS  
REACTOR PHYSICS  
REACTOR TECHNOLOGY  
NUCLEAR FUEL ELEMENTS  
2202 2203  
UP FUEL ELEMENTS (NUCLEAR REACTORS)  
RT ANNULAR CORE PULSE REACTORS  
ELEMENTS  
#FUELS  
NUCLEAR FUELS  
#NUCLEAR REACTORS  
PLUTONIUM ALLOYS  
REACTOR CORES  
REACTOR MATERIALS  
URANIUM ALLOYS  
URANIUM CARBIDES  
NUCLEAR FUELS  
2202 2203 2405  
UP REACTOR FUELS  
NT CERAMIC NUCLEAR FUELS  
FISSION  
NUCLEAR FUEL BURNUP  
BT #FUELS  
RT ANNULAR CORE PULSE REACTORS  
DEUTERIUM  
FISSION  
FISSIONABLE MATERIALS  
FUEL CAPSULES  
NEUTRON SOURCES  
NUCLEAR ENERGY  
NUCLEAR FUEL ELEMENTS  
NUCLEAR PROPULSION  
#NUCLEAR REACTORS  
PELLETS  
PLUTONIUM  
PLUTONIUM ALLOYS  
PLUTONIUM COMPOUNDS  
REACTOR CORES  
REACTOR MATERIALS  
REACTOR STARTUP TESTS  
SOL-GEL PROCESSES  
THORIUM  
THORIUM ALLOYS  
THORIUM COMPOUNDS  
TRITIUM  
URANIUM  
URANIUM ALLOYS  
URANIUM CARBIDES  
URANIUM COMPOUNDS  
URANIUM OXIDES  
URANIUM 233  
URANIUM 235  
URANIUM 238  
NUCLEAR FUSION  
2204 2405  
UP NUCLEOSYNTHESIS  
NT CONTROLLED FUSION  
BT #NUCLEAR REACTIONS  
THERMONUCLEAR REACTIONS  
DEUTERON IRRADIATION  
FUSION  
HIGH ENERGY INTERACTIONS  
#IRRADIATION  
MAGNETIC MIRRORS



## NUCLEAR GYROSCOPES

NUCLEAR CAPTURE  
NUCLEAR ENERGY  
NUCLEAR EXPLOSIONS  
NUCLEAR FISSION  
NUCLEAR RADIATION  
SYNTHESIS

## NUCLEAR GYROSCOPES

1403 2405

BT #GYROSCOPES

## NUCLEAR HEAT

2202 2405

BT HEAT

RT NUCLEAR ENERGY  
NUCLEAR EXPLOSIONS  
NUCLEAR RADIATION

## NUCLEAR INTERACTIONS

2405

BT ELECTRON CAPTURE  
NUCLEAR CAPTURE  
SPIN-ORBIT INTERACTIONS  
BT #NUCLEAR REACTIONS

RT #PARTICLE INTERACTIONS  
COLLISION PARAMETERS  
ELEMENTARY PARTICLES  
INTERACTIONS  
NUCLEAR BINDING ENERGY

## NUCLEAR ISOBARS

2405

BT #CHEMICAL ELEMENTS  
ISOBARS  
ISOTOPES  
NUCLEI (NUCLEAR PHYSICS)  
NUCLIDES

## NUCLEAR MAGNETIC RESONANCE

2307 2401 2402 2405

BT PROTON MAGNETIC RESONANCE

BT MAGNETIC RESONANCE

BT #RESONANCE

RT MAGNETIC SIGNALS  
MAGNETOMETERS  
MOLECULAR STRUCTURE  
NUCLEAR QUADRUPOLE RESONANCE  
PARAMAGNETIC RESONANCE  
PARTICLE SPIN  
PLANCKS CONSTANT  
SPIN-LATTICE RELAXATION  
SPIN RESONANCE

## NUCLEAR METEOROLOGY

2003 2405

BT #METEOROLOGY

BT FALLOUT

## NUCLEAR MODELS

0603 2401 2404 2405

BT #MODELS

RT ATOMIC STRUCTURE  
ENERGY LEVELS  
MOLECULAR STRUCTURE  
#NUCLEAR PHYSICS  
NUCLEAR STRUCTURE

## NUCLEAR PARTICLES

2403 2405

BT ALPHA PARTICLES  
ANTINEUTRINOS  
ANTINUCLEONS  
ANTIPARTICLES  
ANTIPROTONS  
BETA PARTICLES  
BOSONS  
ETA-MESONS  
HYPERONS  
KAONS  
MESON RESONANCES  
MESONS  
NUCLEONS  
PHOTONS  
PIONS  
POSITRONS  
BT #PARTICLES  
CORPUSCULAR RADIATION  
COSMIC RAYS  
ELEMENTARY PARTICLES  
FISSION PRODUCTS  
MUONS  
NEUTRON CROSS SECTIONS  
NEUTRON DISTRIBUTION  
NEUTRON SCATTERING  
NUCLEAR RADIATION  
NEUTRON-NUCLEON SCATTERING  
NUCLEON POTENTIAL  
#PARTICLE ACCELERATORS  
PHOTONEUTRONS

PI-ELECTRONS  
POSITRON ANNIHILATION  
PROTON RESONANCE  
PROTONS

## #NUCLEAR PHYSICS

2405

BT BOHR THEORY  
FIELD THEORY (PHYSICS)  
PLASMA PHYSICS  
QUANTUM THEORY  
RT ATOMIC STRUCTURE  
CURRENT ALGEBRA  
ELECTROMAGNETIC ABSORPTION  
FIELD THEORY (PHYSICS)  
HEALTH PHYSICS  
NUCLEAR ENERGY  
NUCLEAR MODELS  
NUCLEAR RADIATION  
NUCLEAR RESEARCH  
NUCLEONICS  
PARITY  
PARTICLE SPIN  
PHYSICS  
PLASMA PHYSICS  
QUANTUM THEORY  
#THEORETICAL PHYSICS

## NUCLEAR POWER

USE NUCLEAR ENERGY  
NUCLEAR POWER GENERATION  
USE #NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER PLANTS

2203 2204

BT ENRICO FERMI ATOMIC POWER PLANT  
HALLAM NUCLEAR POWER FACILITY  
ML-1 NUCLEAR POWER PLANT

BT #ELECTRIC POWER PLANTS

BT #NUCLEAR ELECTRIC POWER GENERATION

BT #NUCLEAR REACTORS

## NUCLEAR POWER REACTORS

2203 2204 2405 3404

BT FISSION ELECTRIC CELLS  
KIWI B-1 REACTOR  
KIWI B-4 REACTOR  
KIWI B REACTORS  
KIWI REACTORS  
PATHFINDER NUCLEAR REACTOR  
PLUTONIUM RECYCLE TEST REACTOR  
SENN REACTOR  
SNAP 10A

SNAP 2

SNAP 4

SNAP 8

SPACE POWER UNIT REACTORS

TORY 2-A REACTOR

TORY 2-C REACTOR

TORY 2 REACTOR

BT #NUCLEAR ELECTRIC POWER GENERATION

BT #NUCLEAR REACTORS

BT BOILING WATER REACTORS

BREEDER REACTORS

FAST NUCLEAR REACTORS

FAST OXIDE REACTORS

NUCLEAR AUXILIARY POWER UNITS

#NUCLEAR ELECTRIC POWER GENERATION

NUCLEAR RESEARCH AND TEST REACTORS

POWER REACTORS

PRESSURIZED WATER REACTORS

SNAP

SODIUM GRAPHITE REACTORS

## NUCLEAR POWERED SHIPS

3401

UP NUCLEAR SUBMARINES

BT SAVANNAH NUCLEAR SHIP

BT SHIPS

#SURFACE VEHICLES

#WATER VEHICLES

RT AIRCRAFT CARRIERS

CARGO SHIPS

NUCLEAR PROPULSION

SUBMARINES

## NUCLEAR PROPELLED AIRCRAFT

0207 2202 2801

RT AIRCRAFT

MILITARY AIRCRAFT

RESEARCH AIRCRAFT

## NUCLEAR PROPULSION

2202 2204 2405

UP CHERMONUCLEAR PROPULSION

THERMONUCLEAR PROPULSION

BT NUCLEAR ELECTRIC PROPULSION

BT #PROPULSION

RT AIRCRAFT ENGINES

## NASA THESAURUS (ALPHABETICAL LISTING)

GASEOUS FISSION REACTORS  
HIGH TEMPERATURE NUCLEAR REACTORS  
HIGH TEMPERATURE PROPELLANTS  
MARINE PROPULSION  
NEW MOONS PROJECT  
#NUCLEAR ELECTRIC POWER GENERATION

NUCLEAR ENERGY

NUCLEAR FUELS

NUCLEAR POWERED SHIPS

#NUCLEAR REACTORS

ROVER PROJECT

SAVANNAH NUCLEAR SHIP

SPACECRAFT PROPULSION

UNDERWATER PROPULSION

NUCLEAR QUADRUPOLE RESONANCE

2307 2401 2402 2405

BT #RESONANCE

RT ENERGY LEVELS

NUCLEAR MAGNETIC RESONANCE

QUADRUPOLES

## NUCLEAR RADIATION

2402 2403 2405

BT BETA PARTICLES

FAST NEUTRONS

GAMMA RAY BEAMS

GAMMA RAYS

NEUTRON BEAMS

PHOTONEUTRONS

POST-BLAST NUCLEAR RADIATION

SPALLATION

THERMAL NEUTRONS

ALPHA PARTICLES

BREMSSTRAHLUNG

CERENKOV RADIATION

CORPUSCULAR RADIATION

#ELECTROMAGNETIC RADIATION

ELECTRON RADIATION

ELECTRONS

ELEMENTARY PARTICLES

EMISSION SPECTRA

FISSION PRODUCTS

HEALTH PHYSICS

HIGH ENERGY INTERACTIONS

#IONIZING RADIATION

#IRRADIATION

NEUTRONS

NUCLEAR EXPLOSIONS

NUCLEAR FISSION

NUCLEAR FISSION

NUCLEAR HEAT

NUCLEAR PARTICLES

#NUCLEAR PHYSICS

#NUCLEAR REACTIONS

NUCLEAR RESEARCH

PARTICLE PRODUCTION

PHOTONS

RADIATION

RADIATION EFFECTS

RADIATION HAZARDS

RADIOACTIVE CONTAMINANTS

RADIOACTIVE DECAY

RADIOACTIVE MATERIALS

RADIOACTIVITY

RADIOBIOLOGY

RADIOCHEMISTRY

VELA SATELLITES

## NUCLEAR RADIATION SPECTROSCOPY

0411 2402 2405

BT #SPECTROSCOPY

RT MASS SPECTROSCOPY

NUCLEAR STRUCTURE

SPECTROSCOPIC ANALYSIS

VACUUM SPECTROSCOPY

## NUCLEAR RAMJET ENGINES

2201 2204 2805

BT #ENGINES

RT PLUTO REACTORS

ROCKETS

SLAM SUPERSONIC LOW ALTITUDE

MISSILE

## #NUCLEAR REACTIONS

2202 2205 2405

UP NEUTRON TRANSMUTATION

BT ALPHA DECAY

ANNIHILATION REACTIONS

CONTROLLED FISSION

ELECTRON CAPTURE

ELECTRON SCATTERING

HIGH ENERGY INTERACTIONS

NEUTRON EMISSION

NEUTRON SCATTERING

NUCLEAR CAPTURE

# NASA THESAURUS (ALPHABETICAL LISTING)

# NUCLEAR WARFARE

NUCLEAR FISSION	NUCLEAR POWER REACTORS	HEALTH PHYSICS RESEARCH REACTOR
NUCLEAR FUSION	NUCLEAR RESEARCH AND TEST REACTORS	HEAVY WATER COMPONENTS TEST
NUCLEAR INTERACTIONS	ORGANIC COOLED REACTORS	REACTORS
NUCLEAR SCATTERING	ORGANIC MODERATED REACTORS	HERO REACTOR
PHOTONUCLEAR REACTIONS	PATHFINDER NUCLEAR REACTOR	HIGH TEMPERATURE NUCLEAR REACTORS
PHOTOPRODUCTION	PEBBLE BED REACTORS	JANUS REACTOR
POSITRON ANNIHILATION	PHOEBUS NUCLEAR REACTOR	KIWI B-1 REACTOR
PROTON-PROTON REACTIONS	PLUM BROOK REACTOR	KIWI B-4 REACTOR
PROTON SCATTERING	PLUTO REACTORS	KIWI B REACTORS
RADIOACTIVE DECAY	PLUTONIUM RECYCLE TEST REACTOR	KIWI REACTORS
RESONANCE SCATTERING	PRESSURIZED WATER REACTORS	LIVERMORE POOL TYPE REACTOR
SPALLATION	SENN REACTOR	LOS ALAMOS MOLTEN PLUTONIUM REACTOR
SPIN-ORBIT INTERACTIONS	SNAP 10A	MILITARY COMPACT REACTORS
THERMONUCLEAR REACTIONS	SNAP 2	NR1 REACTORS
RT COMPTON EFFECT	SNAP 4	PLUM BROOK REACTOR
CRITICAL EXPERIMENTS	SNAP 8	PLUTONIUM RECYCLE TEST REACTOR
CRITICAL MASS	SNAPTRAN REACTOR	SPERT REACTORS
EMISSION	SNAPTRAN REACTORS	TORY 2-A REACTOR
HALF LIFE	SODIUM GRAPHITE REACTORS	TORY 2-C REACTOR
INHOUR EQUATION	SODIUM REACTOR EXPERIMENT	TORY 2 REACTOR
INTERNAL CONVERSION	SPACE POWER UNIT REACTORS	TOWER SHIELDING REACTOR 2
NUCLEAR ENERGY	SPECTRAL SHIFT CONTROL REACTOR	ZERO POWER REACTOR 2
NUCLEAR EXPLOSIONS	SPERT REACTORS	ZERO POWER REACTOR 3
NUCLEAR RADIATION	SWIMMING POOL REACTORS	ZERO POWER REACTOR 6
NUCLEAR RESEARCH	THERMAL REACTORS	ZERO POWER REACTOR 7
PAIR PRODUCTION	TORY 2-A REACTOR	ZERO POWER REACTOR 9
*PARTICLE INTERACTIONS	TORY 2-C REACTOR	BT #NUCLEAR REACTORS
PARTICLE PRODUCTION	TORY 2 REACTOR	RT BOILING WATER REACTORS
PHOTONEUTRONS	TOWER SHIELDING REACTOR 2	NEUTRON SOURCES
POISONING (REACTION INHIBITION)	WATER COOLED REACTORS	NUCLEAR ENGINE FOR ROCKET VEHICLES
*RADIATION ABSORPTION	WATER MODERATED REACTORS	NUCLEAR POWER REACTORS
RADIOGENIC MATERIALS	ZERO POWER REACTOR 2	REACTOR DESIGN
REACTION	ZERO POWER REACTOR 3	REACTOR TECHNOLOGY
REACTION KINETICS	ZERO POWER REACTOR 6	REACTORS
REACTIVITY	ZERO POWER REACTOR 7	SODIUM REACTOR EXPERIMENT
SPALLING	ZERO POWER REACTOR 9	TRANSIENT REACTOR TEST FACILITY
SUBCRITICAL MASS	ZERO POWER REACTORS	NUCLEAR ROCKET ENGINES
TRANSUTATION	CLOSED CYCLES	2204 2405 3106
NUCLEAR REACTOR CONTROL	CONTROL RODS	UP THERMIONIC REACTORS
2202 2204 3404	COOLANTS	BT #ENGINES
RT CONFINEMENT	HIGH FLUX BEAM REACTORS	ROCKET ENGINES
CONTROL	INHOUR EQUATION	BOOSTER ROCKET ENGINES
CONTROL RODS	MODERATORS	ION ENGINES
REACTION CONTROL	NUCLEAR ENERGY	PHOEBUS NUCLEAR REACTOR
REACTOR SAFETY	NUCLEAR ENGINE FOR ROCKET VEHICLES	PLUTO REACTORS
NUCLEAR REACTOR MATERIALS	NUCLEAR FUEL ELEMENTS	RESTARTABLE ROCKET ENGINES
USE REACTOR MATERIALS	NUCLEAR FUELS	ROCKETS
#NUCLEAR REACTORS	NUCLEAR POWER PLANTS	SUSTAINER ROCKET ENGINES
2203 2204	NUCLEAR PROPULSION	NUCLEAR SCATTERING
NT ADVANCED SODIUM COOLED REACTOR	FILES	2402 2403 2405
ADVANCED TEST REACTORS	RADIATION SHIELDING	(SCATTERING CAUSED BY NUCLEUS AND NOT
ANNULAR CORE PULSE REACTORS	REACTOR CORES	BY ORBITAL ELECTRONS)
ASTRON THERMONUCLEAR REACTOR	REACTOR DESIGN	NT NEUTRON SCATTERING
BOILING WATER REACTORS	REACTOR MATERIALS	RESONANCE SCATTERING
BORAX 5 REACTOR	REACTOR PHYSICS	BT #NUCLEAR REACTIONS
BREEDER REACTORS	REACTOR SAFETY	#SCATTERING
ENGINEERING TEST REACTORS	REACTOR STARTUP TESTS	RT ANGULAR DISTRIBUTION
EXPERIMENTAL BOILING WATER REACTORS	REACTOR TECHNOLOGY	BACKSCATTERING
EXPERIMENTAL BREEDER REACTOR 1	REACTORS	COHERENT SCATTERING
EXPERIMENTAL BREEDER REACTOR 2	ROVER PROJECT	ELASTIC SCATTERING
EXPERIMENTAL GAS COOLED REACTORS	SODIUM REACTOR EXPERIMENT	ELECTRON SCATTERING
EXPERIMENTAL ORGANIC COOLED	STELLARATORS	FORWARD SCATTERING
REACTORS	THERMAL NEUTRONS	INCOHERENT SCATTERING
PAST NUCLEAR REACTORS	THERMAL POLLUTION	INELASTIC SCATTERING
PAST OXIDE REACTORS	NUCLEAR RELAXATION	MANDELSTAM REPRESENTATION
PAST TEST REACTORS	1203 2404	NUCLEAR SHIELDING
FISSION ELECTRIC CELLS	RT RELAXATION (MECHANICS)	USE RADIATION SHIELDING
GAS COOLED REACTORS	NUCLEAR RESEARCH	NUCLEAR SPIN
GASEOUS FISSION REACTORS	2204 2405 3404	2307 2405
HALDEN BOILING WATER REACTOR	UP NUCLEAR ENERGY LABORATORIES	BT #SPIN
HANFORD REACTORS	BT #RESEARCH	RT ELECTRON SPIN
HEALTH PHYSICS RESEARCH REACTOR	RT HIGH ENERGY INTERACTIONS	ENERGY LEVELS
HEAVY WATER COMPONENTS TEST	#LABORATORIES	MAGNETIC RESONANCE
REACTORS	NUCLEAR ENERGY	NUCLEAR BINDING ENERGY
HEAVY WATER REACTORS	#NUCLEAR PHYSICS	QUANTUM NUMBERS
HERO REACTOR	NUCLEAR RADIATION	QUANTUM THEORY
HIGH FLUX ISOTOPE REACTORS	#NUCLEAR REACTIONS	NUCLEAR STRUCTURE
HIGH TEMPERATURE NUCLEAR REACTORS	NUCLEAR STRUCTURE	2401 2405
JANUS REACTOR	RADIOCHEMISTRY	RT ENERGY LEVELS
KIWI B-1 REACTOR	NUCLEAR RESEARCH AND TEST REACTORS	EVEN-EVEN NUCLEI
KIWI B-4 REACTOR	1108 2202 2204 3404	NUCLEAR BINDING ENERGY
KIWI B REACTORS	UP MATERIALS TESTING REACTORS	NUCLEAR MODELS
KIWI REACTORS	NUCLEAR TEST REACTORS	NUCLEAR RADIATION SPECTROSCOPY
LIQUID COOLED REACTORS	PHYSICAL CONSTANTS TESTING REACTOR	NUCLEAR RESEARCH
LIQUID METAL COOLED REACTORS	ADVANCED TEST REACTORS	ODD-ODD NUCLEI
LITHIUM COOLED REACTOR EXPERIMENT	BORAX 5 REACTOR	NUCLEAR SUBMARINES
LIVERMORE POOL TYPE REACTOR	EXPERIMENTAL BOILING WATER REACTORS	USE NUCLEAR POWERED SHIPS
LOS ALAMOS MOLTEN PLUTONIUM REACTOR	EXPERIMENTAL BREEDER REACTOR 1	SUBMARINES
LOS ALAMOS WATER BOILER REACTOR	EXPERIMENTAL BREEDER REACTOR 2	NUCLEAR TEST REACTORS
MILITARY COMPACT REACTORS	EXPERIMENTAL GAS COOLED REACTORS	USE NUCLEAR RESEARCH AND TEST REACTORS
MOLTEN SALT NUCLEAR REACTORS	EXPERIMENTAL ORGANIC COOLED	NUCLEAR WARFARE
NR1 REACTORS	REACTORS	2205 2405 3401

# NUCLEAR WARHEADS

BT WARFARE  
RT CIVIL DEFENSE  
HARDENING (SYSTEMS)  
NUCLEAR ENERGY  
NUCLEAR EXPLOSIONS  
NUCLEAR WEAPONS  
NUCLEAR WARHEADS  
2205 2806 3101 3106 3301 3302  
BT WARHEADS  
#WEAPONS  
RT NUCLEAR EXPLOSIONS  
NUCLEAR WEAPONS  
NUCLEAR WEAPONS  
2205 2405 3401  
RT FISSION WEAPONS  
BT #WEAPONS  
RT BOMBS (ORDNANCE)  
EXPLOSIVES  
#MISSILES  
NUCLEAR ENERGY  
NUCLEAR EXPLOSION EFFECT  
NUCLEAR EXPLOSIONS  
NUCLEAR WARFARE  
NUCLEAR WARHEADS  
PROJECTILES  
ROCKETS  
SPACE WEAPONS  
TORPEDOES  
WARHEADS  
#WEAPON SYSTEMS  
NUCLEAR  
0403 0406 1808  
BT #ALIPHATIC COMPOUNDS  
ENZYMES  
#PROTEINS  
NUCLEAR BOILING  
2203 3303 3304  
BT LEIDENFROST PHENOMENON  
BT BOILING  
#PHASE TRANSFORMATIONS  
VAPORIZING  
RT FILM BOILING  
HEAT TRANSFER  
HEAT TRANSFER COEFFICIENTS  
NUCLEATION  
NUCLEATION  
0602 0603 2401 2601  
RT CLOUD SEEDING  
RT ACCUMULATIONS  
CONDENSING  
CRYSTAL GROWTH  
CRYSTALLIZATION  
DROP SIZE  
FORMATION  
#HEAT TREATMENT  
ICE NUCLEI  
INITIATION  
INOCULATION  
JET CONDENSERS  
NUCLEATE BOILING  
NUCLEI  
RECRYSTALLIZATION  
SUPERCOOLING  
NUCLEI  
0406 2202 2401 2405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #CELLS (BIOLOGY)  
CHARGED PARTICLES  
CHROMOSOMES  
ICE NUCLEI  
NUCLEATION  
NUCLEI (NUCLEAR PHYSICS)  
NUCLEOGENESIS  
ODD-ODD NUCLEI  
NUCLEI (NUCLEAR PHYSICS)  
2401 2405  
RT ALPHA PARTICLES  
DEUTERONS  
EVEN-EVEN NUCLEI  
HEAVY NUCLEI  
HYPERNUCLEI  
ODD-ODD NUCLEI  
TRITONS  
RT ATOMS  
CORPUSCULAR RADIATION  
COSMIC RAYS  
ELEMENTARY PARTICLES  
#IONS  
ISOTOPES  
NEUTRONS

NUCLEAR ISOBARS  
NUCLEI  
NUCLEONS  
PROTONS  
NUCLEIC ACIDS  
0403 1808  
RT RIBONUCLEIC ACIDS  
URIDYLIC ACID  
BT #ACIDS  
NUCLEOGENESIS  
0406  
RT #GENETICS  
MUTATIONS  
NUCLEI  
NUCLEON-NUCLEON INTERACTIONS  
2405  
RT CHARGED PARTICLES  
INTERACTIONS  
NUCLEON-NUCLEON SCATTERING  
2403 2405  
BT #SCATTERING  
RT NUCLEAR PARTICLES  
PARTICLE COLLISIONS  
POMERANCHUK THEOREM  
NUCLEON POTENTIAL  
2301 2304 2403  
RT NEUTRONS  
NUCLEAR PARTICLES  
POTENTIAL  
PROTONS  
RADIATION  
NUCLEONICS  
1002 2405  
RT ELECTRONICS  
NUCLEAR ENERGY  
#NUCLEAR PHYSICS  
TECHNOLOGIES  
NUCLEONS  
2403 2405  
BT ELEMENTARY PARTICLES  
NUCLEAR PARTICLES  
#PARTICLES  
RT ALPHA PARTICLES  
ANTINUCLEONS  
BARYONS  
CHARGED PARTICLES  
FAST NEUTRONS  
HYPERONS  
NEUTRONS  
NUCLEI (NUCLEAR PHYSICS)  
PROTONS  
VECTOR DOMINANCE MODEL  
NUCLEOPHILES  
0603 1808  
BT ELECTRON ATTACHMENT  
NUCLEOSIDES  
0403 1808  
RT ADENINES  
ADENOSINE DIPHOSPHATE (ADP)  
ADENOSINE TRIPHOSPHATE (ATP)  
ADENOSINES  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
RT GLUCOSIDES  
RIBOSE  
THYMIDINE  
NUCLEOSYNTHESIS  
USE NUCLEAR FUSION  
NUCLEOTIDES  
0403 1808  
RT ADENINES  
ADENOSINE DIPHOSPHATE (ADP)  
ADENOSINE TRIPHOSPHATE (ATP)  
ADENOSINES  
PYRIDINE NUCLEOTIDES  
URIDYLIC ACID  
BT #ORGANIC COMPOUNDS  
PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
#PROTEINS  
NUCLIDES  
2203 2403 2405 2406  
BT ALUMINUM ISOTOPES  
ALUMINUM 26  
ALUMINUM 27  
AMERICIUM  
AMERICIUM ISOTOPES  
AMERICIUM 241  
ARGON ISOTOPES  
ARSENIC ISOTOPES  
ASTATINE ISOTOPES  
BARIUM ISOTOPES

# NASA THESAURUS (ALPHABETICAL LISTING)

BERKELIUM  
BERYLLIUM ISOTOPES  
BERYLLIUM 7  
BERYLLIUM 9  
BERYLLIUM 10  
BISMUTH ISOTOPES  
BORON ISOTOPES  
BORON 10  
BROMINE ISOTOPES  
CADMIUM ISOTOPES  
CALCIUM ISOTOPES  
CALIFORNIUM  
CALIFORNIUM ISOTOPES  
CARBON ISOTOPES  
CARBON 12  
CARBON 13  
CARBON 14  
CERIUM ISOTOPES  
CERIUM 137  
CERIUM 144  
CESIUM ISOTOPES  
CESIUM VAPOR  
CESIUM 133  
CESIUM 134  
CESIUM 137  
CESIUM 144  
CHROMIUM ISOTOPES  
COBALT ISOTOPES  
COBALT 58  
COBALT 60  
CURIUM  
CURIUM ISOTOPES  
CURIUM 242  
CURIUM 244  
DEUTERIUM  
DISSPROSIUM ISOTOPES  
EINSTEINIUM  
ERBIUM ISOTOPES  
EUROPIUM ISOTOPES  
FERMIUM  
GALLIUM ISOTOPES  
GERMANIUM ISOTOPES  
GOLD ISOTOPES  
GOLD 198  
HAFNIUM ISOTOPES  
HELIUM ISOTOPES  
HOLMIUM ISOTOPES  
HYDROGEN ISOTOPES  
HYDROGEN 4  
INDIUM ISOTOPES  
IODINE ISOTOPES  
IODINE 125  
IODINE 131  
IODINE 132  
IRIDIUM ISOTOPES  
IRON ISOTOPES  
IRON 57  
IRON 59  
ISOTOPES  
KRYPTON ISOTOPES  
KRYPTON 85  
LANTHANUM ISOTOPES  
LAWRENCIUM  
LEAD ISOTOPES  
LITHIUM ISOTOPES  
LUTETIUM  
LUTETIUM ISOTOPES  
MANGANESE ISOTOPES  
MENDELEVIUM  
MERCURY ISOTOPES  
NEODYMIUM ISOTOPES  
NEON ISOTOPES  
NEPTUNIUM  
NICKEL ISOTOPES  
NIOBIUM ISOTOPES  
NIOBIUM 95  
NITROGEN ISOTOPES  
NITROGEN 15  
NITROGEN 16  
NOBELIUM  
OXYGEN ISOTOPES  
OXYGEN 18  
PHOSPHORUS ISOTOPES  
PHOSPHORUS 32  
PLATINUM ISOTOPES  
PLUTONIUM  
PLUTONIUM ISOTOPES  
PLUTONIUM 238  
PLUTONIUM 239  
PLUTONIUM 240  
PLUTONIUM 241  
POLONIUM ISOTOPES

# NASA THESAURUS (ALPHABETICAL LISTING)

POLONIUM 208  
 POLONIUM 209  
 POLONIUM 210  
 POTASSIUM ISOTOPES  
 POTASSIUM 38  
 POTASSIUM 39  
 POTASSIUM 40  
 PRASEODYMIUM ISOTOPES  
 PROMETHIUM ISOTOPES  
 PROTACTINIUM ISOTOPES  
 RADIOACTIVE ISOTOPES  
 RADIUM ISOTOPES  
 RADIUM 226  
 RADON ISOTOPES  
 RHODIUM ISOTOPES  
 RUBIDIUM ISOTOPES  
 RUBIDIUM 86  
 RUTHENIUM ISOTOPES  
 SCANDIUM ISOTOPES  
 SILVER ISOTOPES  
 SODIUM ISOTOPES  
 SODIUM 22  
 SODIUM 24  
 STRONTIUM ISOTOPES  
 STRONTIUM 85  
 STRONTIUM 88  
 STRONTIUM 89  
 STRONTIUM 90  
 TELLURIUM  
 TELLURIUM ISOTOPES  
 TERBIUM ISOTOPES  
 THORIUM ISOTOPES  
 THULIUM ISOTOPES  
 TIN ISOTOPES  
 TITANIUM ISOTOPES  
 TRANSURANIUM ELEMENTS  
 TRITIUM  
 URANIUM ISOTOPES  
 URANIUM 232  
 URANIUM 233  
 URANIUM 234  
 URANIUM 235  
 URANIUM 238  
 XENON ISOTOPES  
 XENON 129  
 XENON 133  
 XENON 135  
 YTTRIUM ISOTOPES  
 ZINC ISOTOPES  
 ZIRCONIUM ISOTOPES  
 ZIRCONIUM 95  
 BT #CHEMICAL ELEMENTS  
 RT NUCLEAR ISOBARS  
 PARTICLE MASS  
 NULL HYPOTHESIS  
 1902 1905  
 BT HYPOTHESES  
 RT CONFIDENCE LIMITS  
 DEGREES OF FREEDOM  
 SIGNIFICANCE  
 STATISTICAL TESTS  
 NULL REFERENCE GLIDE PATH  
 USE GLIDE PATHS  
 NULL ZONES  
 1301 1302  
 BT #REGIONS  
 RT DIFFRACTION PATTERNS  
 FIELD THEORY (PHYSICS)  
 FORCE  
 INTERFEROMETRY  
 RADIATION DISTRIBUTION  
 #NUMBER THEORY  
 1902  
 RT ADDITION THEOREM  
 ARITHMETIC  
 CONGRUENCES  
 DIOPHANTINE EQUATION  
 DIVIDING (MATHEMATICS)  
 EXPONENTS  
 INDUCTION (MATHEMATICS)  
 INTEGERS  
 MULTIPLICATION  
 SUBTRACTION  
 RT ADDITION  
 COMBINATORIAL ANALYSIS  
 DECIMALS  
 DIGITS  
 DIVISION  
 ENUMERATION  
 #FUNCTIONS (MATHEMATICS)  
 INDUCTION  
 INFINITY

MATHEMATICS  
 NUMBERS  
 QUATERNIONS  
 SUBGROUPS  
 THEORIES  
 UNIQUENESS THEOREM  
 NUMBERS  
 0703 0802 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #ALPHANUMERIC CHARACTERS  
 COMPLEX NUMBERS  
 COUNTING  
 DECIMALS  
 DIGITS  
 DIMENSIONLESS NUMBERS  
 DOUBLE PRECISION ARITHMETIC  
 INTEGERS  
 #NUMBER THEORY  
 QUANTUM NUMBERS  
 RANDOM NUMBERS  
 REAL NUMBERS  
 NUMERICAL ANALYSIS  
 1902 1903  
 RT APPROXIMATION  
 BORN APPROXIMATION  
 BORN-OPPENHEIMER APPROXIMATION  
 CHEBYSHEV APPROXIMATION  
 CRAEPP CALCULUS  
 DIFFERENCE EQUATIONS  
 EDDINGTON APPROXIMATION  
 ERROR ANALYSIS  
 FINITE DIFFERENCE THEORY  
 GRAEPP CALCULUS  
 HARTREE APPROXIMATION  
 INTERPOLATION  
 ITERATION  
 ITERATIVE SOLUTION  
 LEAST SQUARES METHOD  
 MILNE METHOD  
 MONTE CARLO METHOD  
 NEWTON-RAPHSON METHOD  
 NOMOGRAPHS  
 NUMERICAL INTEGRATION  
 OSBORN APPROXIMATION  
 PADÉ APPROXIMATION  
 PARTICLE IN CELL TECHNIQUE  
 POHLHAUSEN METHOD  
 RAYLEIGH-RITZ METHOD  
 RELAXATION METHOD (MATHEMATICS)  
 RITZ AVERAGING METHOD  
 RUNGE-KUTTA METHOD  
 SCHWARTZ METHOD  
 SOMMERFELD APPROXIMATION  
 TRUNCATION ERRORS  
 BT #ANALYSIS (MATHEMATICS)  
 RT ADJOINTS  
 ALGORITHMS  
 APPLICATIONS OF MATHEMATICS  
 ASYMPTOTES  
 COMPUTER PROGRAMMING  
 DIFFERENTIAL EQUATIONS  
 LINEAR PROGRAMMING  
 MATHEMATICAL TABLES  
 MATHEMATICS  
 SIGNIFICANCE  
 TRAJECTORY ANALYSIS  
 NUMERICAL CONTROL  
 0802 1504 1902 3404  
 RT #AUTOMATIC CONTROL  
 RT AUTONATION  
 #COMPUTER PROGRAMS  
 DIGITAL COMMAND SYSTEMS  
 DIGITAL TECHNIQUES  
 ELECTRIC CONTROL  
 MACHINE TOOLS  
 PRODUCTION ENGINEERING  
 SEQUENTIAL CONTROL  
 STANDARDIZATION  
 NUMERICAL FLOW VISUALIZATION  
 1201 1202 1407 1903 2310 3404  
 RT FLOW VISUALIZATION  
 RT FLOW DISTRIBUTION  
 HYDRAULIC ANALOGIES  
 NUMERICAL INTEGRATION  
 1902 1903  
 RT COWELL METHOD  
 RT RUNGE-KUTTA METHOD  
 BT #ANALYSIS (MATHEMATICS)  
 MEASURE AND INTEGRATION  
 NUMERICAL ANALYSIS

NUTS (FRUITS)  
 REAL VARIABLES  
 RT DIFFERENTIAL EQUATIONS  
 DIGITAL INTEGRATORS  
 INTEGRAL CALCULUS  
 NUMERICAL WEATHER FORECASTING  
 1301 2001 2002 2003 2004 3107 3110  
 BT #FORECASTING  
 #METEOROLOGY  
 WEATHER FORECASTING  
 RT ATMOSPHERIC MODELS  
 COMPUTERIZED SIMULATION  
 LONG RANGE WEATHER FORECASTING  
 MATHEMATICAL MODELS  
 STATISTICAL WEATHER FORECASTING  
 #USSELT NUMBER  
 3303 3304  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT CONVECTIVE HEAT TRANSFER  
 HEAT TRANSFER  
 PRANDTL NUMBER  
 SCHMIDT NUMBER  
 NOTATION  
 0409 1901 2403 3001  
 RT NOTATIONAL OSCILLATION  
 ACTUATION  
 RT DISPLACEMENT  
 DYNAMICS  
 KINEMATICS  
 LIBRATION  
 MOTION  
 #PERTURBATION  
 PRECESSION  
 ROTATION  
 #VIBRATION  
 NOTATIONAL OSCILLATION  
 USE NOTATION  
 NUTRIENTS  
 0403 0505  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #CARBOHYDRATES  
 FATS  
 FATTY ACIDS  
 FISHES  
 LIFE SUPPORT SYSTEMS  
 LIPID METABOLISM  
 LIPIDS  
 #MINERALS  
 NUTRITION  
 NUTRITIONAL REQUIREMENTS  
 #PROTEINS  
 TRACE ELEMENTS  
 VITAMINS  
 NUTRITION  
 0404 0405 0408 0505  
 RT BIOCHEMISTRY  
 DIETS  
 FOOD  
 #METABOLISM  
 NUTRIENTS  
 NUTRITIONAL REQUIREMENTS  
 PHYSIOLOGY  
 SPACE FLIGHT FEEDING  
 NUTRITIONAL REQUIREMENTS  
 0404 0408 0505  
 RT CALORIC REQUIREMENTS  
 RT ATROPHY  
 NUTRIENTS  
 NUTRITION  
 SPACE FLIGHT FEEDING  
 NUTS  
 0404 0409 0505 1504 1704  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT HOLDERS  
 NUTS (FASTENERS)  
 NUTS (FRUITS)  
 SCREENS  
 NUTS (FASTENERS)  
 3404  
 RT #FASTENERS  
 RT ANCHORS (FASTENERS)  
 BOLTS  
 HOLDERS  
 NUTS  
 SCREWS  
 THREADS  
 NUTS (FRUITS)  
 0409

**NYLON (TRADEMARK)**

RT ANGIOSPERMS  
BUTS  
SEEDS

**NYLON (TRADEMARK)**

1504 1802 1808 1810 1812

BT #FIBERS

#PLASTICS

POLYAMIDE RESINS

#RESINS

SYNTHETIC FIBERS

SYNTHETIC RESINS

THERMOSETTING RESINS

RT POLYMERIC FILMS  
POLYMERS

**NYLON RESINS**

USE POLYAMIDE RESINS

**NYQUIST DIAGRAM**

1902

BT DIAGRAMS

RT CONTROL STABILITY  
TRANSFER FUNCTIONS

**NYQUIST FREQUENCIES**

0702 0705

BT #FREQUENCIES

RT LINEAR RECEIVERS

**NYSTAGMUS**

0401 0404 0405 0408 3401

BT EYE (ANATOMY)  
EYE MOVEMENTS

**NASA THESAURUS (ALPHABETICAL LISTING)**

<p>O RING SEALS 1501 BT SEALS (STOPPERS) BT GASKETS GLANDS (SEALS) HERMETIC SEALS RINGS</p> <p>O STARS 3001 BT #CELESTIAL BODIES HOT STARS STARS</p> <p>OAK RIDGE ISOCRONOUS CYCLOTRON 2202 2403 2405 UF ORIC CYCLOTRON BT CYCLOTRONS #PARTICLE ACCELERATORS</p> <p>OAO 3001 3107 3409 UF OAO-A ORBITING ASTRONOMICAL OBSERVATORY S-18 SATELLITE</p> <p>NT OAO 1 OAO 2 OAO 3</p> <p>BT ARTIFICIAL SATELLITES ASTRONOMICAL OBSERVATORIES EARTH SATELLITES #OBSERVATORIES #SATELLITES</p> <p>RT AGENA B ROCKET VEHICLE ATLAS LAUNCH VEHICLES HEAO MANNED ORBITAL TELESCOPES</p> <p>OAO-A USE OAO</p> <p>OAO 1 3001 3107 3409 BT OAO RT ATLAS CENTAUR LAUNCH VEHICLE</p> <p>OAO 2 3001 3107 3409 BT OAO RT ATLAS CENTAUR LAUNCH VEHICLE</p> <p>OAO 3 3001 3107 3409 BT OAO RT ATLAS CENTAUR LAUNCH VEHICLE</p> <p>OBESITY 0404 0405 0408</p> <p>OBJECT PROGRAMS 0802 BT #COMPUTER PROGRAMS</p> <p>OBULATE SPHEROIDS 1901 1902 3408 BT ANALYTIC GEOMETRY EUCLIDEAN GEOMETRY #GEOMETRY SPHEROIDS RT ELLIPTICITY FINENESS RATIO FLATTENING GEODESY GEODES PROLATE SPHEROIDS SHAPES</p> <p>OBLIQUE COORDINATES 1902 RT CARTESIAN COORDINATES</p> <p>OBLIQUE SHOCK WAVES 0101 1202 1203 BT #ELASTIC WAVES SHOCK WAVES RT MAGNETOHYDRODYNAMIC WAVES NORMAL SHOCK WAVES SHOCK LAYERS SUPERSONIC COMPRESSORS</p> <p>OBSCURATION USE #OCCULTATION</p> <p>OBSERVATION 0709 0803 1409 3405 3407 NT SATELLITE OBSERVATION VISUAL OBSERVATION RT COUNTING DATA ACQUISITION #DETECTION EVALUATION EXAMINATION FOREST FIRE DETECTION PERFORMANCE</p>	<p>RADIO OBSERVATION RECONNAISSANCE OBSERVATION AIRCRAFT 0207 RT BREGUET 1150 AIRCRAFT CESSNA L-19 AIRCRAFT CL-28 AIRCRAFT CL-84 AIRCRAFT E-2 AIRCRAFT G-95/4 AIRCRAFT G-91 AIRCRAFT MIRAGE 3 AIRCRAFT OH-4 HELICOPTER OH-5 HELICOPTER OH-6 HELICOPTER OV-1 AIRCRAFT OV-10 AIRCRAFT P-1127 AIRCRAFT P-1154 AIRCRAFT RB-50 AIRCRAFT SUNDERLAND 5 FLYING BOAT TSR-2 AIRCRAFT U-2 AIRCRAFT WEATHER RECONNAISSANCE AIRCRAFT ANTISUBMARINE WARFARE AIRCRAFT BALLOONS FLYING PLATFORMS #GLIDERS HS-801 AIRCRAFT LIGHT AIRCRAFT MILITARY AIRCRAFT RECONNAISSANCE AIRCRAFT TERRAIN FOLLOWING AIRCRAFT UTILITY AIRCRAFT WEATHER RECONNAISSANCE AIRCRAFT</p> <p>#OBSERVATORIES 1412 3001 NT AOSO ASTRONOMICAL OBSERVATORIES EGO GEOPHYSICAL OBSERVATORIES HEAO JODRELL BANK OBSERVATORY LUNAR OBSERVATORIES OAO OGO OGO-A OGO-B OGO-C OGO-D OGO-E OGO-F OSO OSO-B OSO-C OSO-D OSO-E OSO-F OSO-G OSO-H OSO-1 OSO-2 OSO-3 OSO-4 OSO-4 POGO RT ARTIFICIAL SATELLITES</p> <p>OBSDIAN 1805 1806 NT MOLDAVITE BT IGNEOUS ROCKS ROCKS RT GLASS POWDER (PARTICLES) PUNICE OBSDIAN GLASS 1805 1806 BT GLASS #MINERALS RT SILICON DIOXIDE</p> <p>OBSTACLES USE BARRIERS OBSTRUCTING USE BLOCKING OCCIPITAL LOBES 0401 0404 0405 BT #ANATOMY HEAD (ANATOMY)</p> <p>OCCCLUSION 0405 0602 1203 RT DEGASSING GAS-METAL INTERACTIONS</p>	<p>GAS-SOLID INTERFACES SOLIDIFICATION #OCCULTATION 1902 2308 UF OBSCURATION NT LUNAR OCCULTATION SOLAR ECLIPSES STELLAR OCCULTATION RT CONJUNCTION ECLIPSES EXTINGUISHING TRANSIT</p> <p>OCCUPATION 3402 RT INDUSTRIAL SAFETY #PERSONNEL WORK</p> <p>OCCURRENCES 2311 3407 RT EVENTS</p> <p>OCEAN BOTTOM 1306 1308 1310 RT #GEOLOGY MUD OCEANOGRAPHY SEDIMENTS SLUDGE</p> <p>OCEAN CURRENTS 1310 2003 RT CORE SAMPLING CURRENTS #FLUID FLOW HYDROGRAPHY OCEAN BOTTOM OCEANOGRAPHY OCEANS SALINITY TIDES</p> <p>OCEAN SURFACE 1304 1306 1310 RT EARTH SURFACE #FLUID FLOW HYDROGRAPHY OCEANOGRAPHY SEA ROUGHNESS SEA STATES SEA WATER TIDES</p> <p>OCEANOGRAPHY 1310 2003 RT BATHYMETERS CASPIAN SEA CORE SAMPLING DEEP SCATTERING LAYERS EARTH PLANETARY STRUCTURE EARTH RESOURCES EARTH RESOURCES TECHNOLOGY</p> <p>SATELLITES ESTUARIES GEOGRAPHY #GEOLOGY GEOPHYSICS HYDROGRAPHY HYDROLOGY ICE MAPPING MARINE BIOLOGY MARINE TECHNOLOGY MARSHLANDS #METEOROLOGY OCEAN BOTTOM OCEAN CURRENTS OCEAN SURFACE OCEANS PELAGIC ZONE SCIENCE SEA ICE SEA ROUGHNESS SEA STATES SEA WATER SEAS THERMOCLINES TIDES TOPOGRAPHY</p> <p>OCEANS 1305 1310 NT ARCTIC OCEAN ATLANTIC OCEAN INDIAN OCEAN PACIFIC OCEAN RT COASTS EARTH HYDROSPHERE GEOGRAPHY</p>
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# OCTAHEDRAL RESEARCH SATELLITES

OCEAN CURRENTS  
 OCEANOGRAPHY  
 SEAS  
 THERMAL POLLUTION  
 OCTAHEDRAL RESEARCH SATELLITES  
 USE ENVIRONMENTAL RESEARCH SATELLITES  
 OCTAHEDRITE  
 USE ANATASE  
 #MINERALS  
 OCTAHEDRONS  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYHEDRONS  
 OCTANE  
 1808 2701 3301  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT OCTANE NUMBER  
 OCTANES  
 OCTANE NUMBER  
 1808 2701 3301  
 RT GASOLINE  
 OCTANE  
 OCTANES  
 0603  
 (ACYCLIC HYDROCARBONS)  
 BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 RT OCTANE  
 OCTAVES  
 0705 2301 2402  
 BT FREQUENCY RANGES  
 #RANGE (EXTREMES)  
 RT ACOUSTICS  
 MUSIC  
 OCTETS  
 2401 2405  
 BT VALENCE  
 RT ATOMIC STRUCTURE  
 CHEMICAL BONDS  
 OCTOATES  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 #ESTERS  
 OCTOL (EXPLOSIVE)  
 3302  
 BT EXPLOSIVES  
 OCTOPUSES  
 0402  
 BT #ANIMALS  
 ARTHROPODS  
 CEPHALOPODS  
 INVERTEBRATES  
 OCULAR CIRCULATION  
 0404 0408  
 BT BLOOD CIRCULATION  
 #CIRCULATION  
 OCULOGRAVIC ILLUSIONS  
 0401 0408 1309  
 BT ILLUSIONS  
 #PSYCHOLOGICAL EFFECTS  
 RT GRAVIRECEPTORS  
 OTOLITH ORGANS  
 VERTICAL PERCEPTION  
 OCULOMETERS  
 0501 1406  
 BT #MEASURING INSTRUMENTS  
 OPTICAL MEASURING INSTRUMENTS  
 RT EYE MOVEMENTS  
 INSTRUMENTS  
 OPTICAL TRACKING  
 OCULOMOTOR NERVES  
 0403 0404  
 BT #ANATOMY  
 EYE (ANATOMY)  
 SENSE ORGANS  
 RT VISION  
 ODD-ODD NUCLEI  
 2401 2405  
 BT NUCLEI (NUCLEAR PHYSICS)  
 RT EVEN-EVEN NUCLEI  
 NUCLEAR STRUCTURE  
 NUCLEI  
 ODESSA METEORITE  
 3005  
 BT #CELESTIAL BODIES  
 IRON METEORITES  
 METEORITES

ODORES  
 0408  
 RT AIR POLLUTION  
 COMBUSTION PRODUCTS  
 EXHAUST GASES  
 #GASES  
 OFF-ON CONTROL  
 1002 1003  
 UP BANG-BANG CONTROL  
 BT #AUTOMATIC CONTROL  
 RT CONTROL EQUIPMENT  
 CONTROL THEORY  
 PROPORTIONAL CONTROL  
 SERVOCONTROL  
 SOLENOID VALVES  
 SOLENOID VALVES  
 OGEE SHAPE  
 1902 3202 3203  
 BT SHAPES  
 RT VARIABLE SWEEP WINGS  
 OGEE WINGS  
 USE VARIABLE SWEEP WINGS  
 OGIVES  
 0102 1902  
 RT BODIES OF REVOLUTION  
 ELLIPSOIDS  
 PAIRINGS  
 NOSE CONES  
 SPHERES  
 STREAMLINED BODIES  
 #SYMMETRICAL BODIES  
 OGO  
 1308 2003 2004 3107 3409  
 UP ORBITING GEOPHYSICAL OBSERVATORY  
 NT EGO  
 OGO-A  
 OGO-B  
 OGO-C  
 OGO-D  
 OGO-E  
 OGO-F  
 POGO  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 #SATELLITES  
 OGO-A  
 1308 3107 3409  
 UP S-49 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
 RT ATLAS AGENA LAUNCH VEHICLE  
 OGO-B  
 1308 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
 RT THOR AGENA LAUNCH VEHICLE  
 OGO-C  
 1308 2003 3107 3409  
 UP S-50 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
 OGO-D  
 1308 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
 RT GEODESY  
 OGO-E  
 1308 3107  
 BT ARTIFICIAL SATELLITES

## NASA THESAURUS (ALPHABETICAL LISTING)

EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
 RT GEODESY  
 OGO-F  
 1308 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL OBSERVATORIES  
 GEOPHYSICAL SATELLITES  
 #OBSERVATORIES  
 OGO  
 #SATELLITES  
 OH-4 HELICOPTER  
 0206 0207 3401  
 UP HO-4 HELICOPTER  
 BT BELL AIRCRAFT  
 HELICOPTERS  
 LIGHT AIRCRAFT  
 MILITARY HELICOPTERS  
 OBSERVATION AIRCRAFT  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 OH-5 HELICOPTER  
 0206 0207 3401  
 UP FH-1100 HELICOPTER  
 HO-5 HELICOPTER  
 BT FAIRCHILD-HILLER AIRCRAFT  
 HELICOPTERS  
 LIGHT AIRCRAFT  
 MILITARY HELICOPTERS  
 OBSERVATION AIRCRAFT  
 PASSENGER AIRCRAFT  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT RIGID ROTOR HELICOPTERS  
 OH-6 HELICOPTER  
 0206 0207 3401  
 UP HO-6 HELICOPTER  
 LOH HELICOPTER  
 BT HELICOPTERS  
 HUGHES AIRCRAFT  
 LIGHT AIRCRAFT  
 MILITARY HELICOPTERS  
 OBSERVATION AIRCRAFT  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 OH-13 HELICOPTER  
 0206 0207 3401  
 UP H-13 HELICOPTER  
 SIOUX HELICOPTER  
 OH-13 HELICOPTER  
 BT BELL AIRCRAFT  
 HELICOPTERS  
 MILITARY HELICOPTERS  
 ROTARY WING AIRCRAFT  
 UTILITY AIRCRAFT  
 #V/STOL AIRCRAFT  
 OH-23 HELICOPTER  
 0206 0207 3401  
 UP H-23 HELICOPTER  
 RAVEN HELICOPTER  
 OH-12 HELICOPTER  
 BT FAIRCHILD-HILLER AIRCRAFT  
 HELICOPTERS  
 MILITARY HELICOPTERS  
 ROTARY WING AIRCRAFT  
 UTILITY AIRCRAFT  
 #V/STOL AIRCRAFT  
 OHIO  
 1305  
 BT UNITED STATES OF AMERICA  
 OHMIC DISSIPATION  
 1002 2304 2502  
 UP JOULE HEATING  
 BT DISSIPATION  
 RT JOULE-THOMSON EFFECT  
 LOSSES  
 OHMMETERS  
 0905 1406 2304  
 BT #MEASURING INSTRUMENTS  
 RT ELECTRICAL CONDUCTIVITY METERS  
 ELECTRICAL IMPEDANCE  
 ELECTRICAL MEASUREMENT  
 ELECTRICAL RESISTANCE  
 RESISTANCE THERMOMETERS  
 WHEATSTONE BRIDGES  
 OHMS LAW  
 1001 2302 2304 3408

# NASA THESAURUS (ALPHABETICAL LISTING)

BT #CIRCUITS  
#LAWS  
RT CONDUCTIVITY  
#ELECTRIC CURRENT  
ELECTRICAL RESISTANCE  
#ELECTRICITY  
ELECTROMOTIVE FORCES  
VOLT-AMPERE CHARACTERISTICS  
OIL ADDITIVES  
0603 1808  
BT #ADDITIVES  
OIL EXPLORATION  
1306 1308  
BT #EXPLORATION  
RT CRUDE OIL  
DRILLING  
#GEOLOGY  
OILS  
0403 1503 1803 1805 1806 1808  
RT CASTOR OIL  
CRUDE OIL  
FUEL OILS  
LUBRICATING OILS  
MINERAL OILS  
BT PATS  
#FUELS  
GREASES  
HYDRAULIC FLUIDS  
LIPID METABOLISM  
LUBRICANTS  
PITCH (MATERIAL)  
OKHANSK METEORITE  
3005  
BT #CELESTIAL BODIES  
METEORITES  
RT IRON METEORITES  
STONY METEORITES  
OKHOTSK SEA  
1305  
BT SEAS  
OKLAHOMA  
1305  
BT UNITED STATES OF AMERICA  
OLEFINS  
USE ALKENES  
OLEIC ACID  
1808  
BT #ACIDS  
#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
FATTY ACIDS  
#ORGANIC COMPOUNDS  
OLFACTORY PERCEPTION  
0404 0408  
UP SMELL  
BT #PERCEPTION  
SENSORY PERCEPTION  
RT CHEMORECEPTORS  
SENSE ORGANS  
OLIVINE  
1806  
BT IGNEOUS ROCKS  
#MINERALS  
PERIDOTITE  
ROCKS  
RT DUNITE  
FORSTERITE  
MONTICELLITE  
SERPENTINE  
OMEGA NAVIGATION SYSTEM  
2103  
BT #MEASURING INSTRUMENTS  
#NAVIGATION  
RT AIR NAVIGATION  
OMEGATRONS  
2202 2401 2403  
BT CYCLOTRONS  
#PARTICLE ACCELERATORS  
OMICRON CETI STAR  
3001  
BT #CELESTIAL BODIES  
STARS  
RT VARIABLE STARS  
ONNIDIRECTIONAL ANTENNAS  
0701 0705 0901  
BT MONOPOLE ANTENNAS  
TURNSTILE ANTENNAS  
ANTENNAS  
#CONDUCTORS  
RT DIPOLE ANTENNAS  
DIRECTIONAL ANTENNAS  
MICROWAVE ANTENNAS

ONNIDIRECTIONAL RADIO RANGES  
RADIO ANTENNAS  
ONNIDIRECTIONAL RADIO RANGES  
0702 0703 2402  
RT SELF CALIBRATING OMNIRANGE  
BT BEACONS  
#NAVIGATION AIDS  
RADIO BEACONS  
RADIO TRANSMITTERS  
#TRANSMITTERS  
RT DISTANCE MEASURING EQUIPMENT  
ONNIDIRECTIONAL ANTENNAS  
RADIO NAVIGATION  
ONNIPOL AIRCRAFT  
0201 0204 0207  
RT HC-3 HELICOPTER  
L-29 JET TRAINER  
Z-37 AIRCRAFT  
RT AIRCRAFT  
ONNIPOL HC-3 HELICOPTER  
USE HC-3 HELICOPTER  
ONNIPOL L-29 AIRCRAFT  
USE L-29 JET TRAINER  
ONNIPOL Z-37 AIRCRAFT  
USE Z-37 AIRCRAFT  
ONNIRANGE NAVIGATION  
USE VHF OMNIRANGE NAVIGATION  
ON-LINE PROGRAMMING  
0802  
BT COMPUTER PROGRAMMING  
#ONBOARD EQUIPMENT  
0202 0301 0507 0701 0801 0904 2104  
RT AIRBORNE EQUIPMENT  
AIRBORNE/SPACEBORNE COMPUTERS  
AIRCRAFT EQUIPMENT  
SPACECRAFT ELECTRONIC EQUIPMENT  
RT AIRCRAFT  
BOMBING EQUIPMENT  
#FLIGHT INSTRUMENTS  
FLIGHT SAFETY  
#HEATING EQUIPMENT  
LIFE SUPPORT SYSTEMS  
#LIGHTING EQUIPMENT  
#RADAR EQUIPMENT  
#RADIO EQUIPMENT  
#SPACECRAFT INSTRUMENTS  
SURVIVAL EQUIPMENT  
#TELECOMMUNICATION  
TEST EQUIPMENT  
TRAINING DEVICES  
ONBOARD NAVIGATION  
USE #NAVIGATION  
ONE DIMENSIONAL FLOW  
1202 1203 1204 2502  
BT #FLUID FLOW  
RT ANNULAR FLOW  
AXIAL FLOW  
CORE FLOW  
FLOW GEOMETRY  
HUGONIOT EQUATION OF STATE  
THREE DIMENSIONAL FLOW  
TWO DIMENSIONAL FLOW  
ONISOTROPY  
USE #ANISOTROPY  
ONSAGER PHENOMENOLOGICAL COEFFICIENT  
1202 1902 2304 2311 3304  
BT #COEFFICIENTS  
RT FLUX DENSITY  
#PLASMAS (PHYSICS)  
STATISTICAL MECHANICS  
VARIATIONAL PRINCIPLES  
ONSAGER RELATIONSHIP  
0603 2404 3304  
RT EQUILIBRIUM  
IRREVERSIBLE PROCESSES  
THERMODYNAMICS  
ONTARIO  
1305  
BT CANADA  
OOCYTES  
USE GAMETOCYTES  
OPACIFIERS  
2306 2310 2402 2502  
BT #ADDITIVES  
RT AGENTS  
FILLERS  
OPACITY  
2306 2310 2402 3408  
RT ABSORPTANCE  
ABSORPTIVITY  
ACOUSTICS  
ATMOSPHERIC OPTICS

## OPERATIONAL HAZARDS

ATTENUATION COEFFICIENTS  
CLARITY  
DENSITY (MASS/VOLUME)  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
HAZE  
LIGHT (VISIBLE RADIATION)  
LIGHT TRANSMISSION  
REFRACTIVITY  
TRANSLUCENCE  
TRANSMISSION EFFICIENCY  
TRANSMISSIVITY  
TRANSPARENCE  
TURBIDITY  
UNDERWATER OPTICS  
VISIBILITY  
OPALESCENCE  
2306 2310 3408  
RT IRIDESCENCE  
OPTICAL PROPERTIES  
OPD-220 ROCKET VEHICLE  
0207 3101  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
OPEN CHANNEL FLOW  
1202 1204  
BT CHANNEL FLOW  
#FLUID FLOW  
LIQUID FLOW  
RT LAMINAR FLOW  
PIPE FLOW  
TURBULENT FLOW  
WATER FLOW  
#OPENINGS  
0202 1305 1504 2806 3407  
UP CUT-OUTS  
RT APERTURES  
IRISES (MECHANICAL APERTURES)  
PORTS (OPENINGS)  
SLITS  
RT CAVITIES  
CRACKS  
CURTAINS  
DOORS  
DUCTS  
EGRESS  
EXHAUST NOZZLES  
EXHAUST SYSTEMS  
GAPS  
GATES (OPENINGS)  
INLET NOZZLES  
#INTAKE SYSTEMS  
ORIFICES  
OUTLETS  
PASSAGeways  
PERFORATED PLATES  
PIPE NOZZLES  
SLOTS  
VENTS  
WINDOWS (APERTURES)  
OPERATING SYSTEMS (COMPUTERS)  
0802  
(COMPUTER PROGRAMS FOR  
EXPEDITING, CONTROLLING AND/OR  
RECORDING COMPUTER USE BY OTHER  
PROGRAMS)  
BT #COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
RT ASSEMBLER ROUTINES  
COMPILES  
INPUT/OUTPUT ROUTINES  
ROUTINES  
OPERATING TEMPERATURE  
1408 1504 3303  
BT #TEMPERATURE  
RT AMBIENT TEMPERATURE  
COMBUSTION TEMPERATURE  
ROOM TEMPERATURE  
WALL TEMPERATURE  
OPERATIONAL CALCULUS  
1902  
RT APPLICATIONS OF MATHEMATICS  
CALCULUS  
CALCULUS OF VARIATIONS  
DIFFERENTIAL EQUATIONS  
FOURIER ANALYSIS  
INTEGRAL CALCULUS  
LINEAR EQUATIONS  
OPERATIONAL HAZARDS  
0203 0502 1103 1505 3406



# OPERATIONAL PROBLEMS

BT #HAZARDS  
 RT AIR PIRACY  
 AIRCRAFT HAZARDS  
 CUMULATIVE DAMAGE  
 FLIGHT HAZARDS  
 METEOROID HAZARDS  
 NOISE (SOUND)  
 RADIATION HAZARDS  
 OPERATIONAL PROBLEMS  
 3406  
 RT PROBLEMS  
 OPERATIONS  
 0405 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIR TRAFFIC CONTROL  
 AIRLINE OPERATIONS  
 CHEMICAL ENGINEERING  
 #CHEMICAL REACTIONS  
 CLINICAL MEDICINE  
 DEPLOYMENT  
 FISHBOWL OPERATION  
 LOADING OPERATIONS  
 MECHANIZATION  
 MISSION PLANNING  
 OPERATIONS RESEARCH  
 ORIFICES  
 PREFLIGHT OPERATIONS  
 PREMAJURE OPERATION  
 PRODUCTION ENGINEERING  
 #PROGRAMS  
 PROJECTS  
 RESCUE OPERATIONS  
 RUNNING  
 SEQUENCING  
 STRATEGY  
 SURGERY  
 SYSTEMS ENGINEERING  
 OPERATIONS RESEARCH  
 3404 3405 3406  
 NT CRITICAL PATH METHOD  
 DYNAMIC PROGRAMMING  
 GAME THEORY  
 LINEAR PROGRAMMING  
 MINIMAL TECHNIQUE  
 NONLINEAR PROGRAMMING  
 SADDLE POINTS (GAME THEORY)  
 BT #RESEARCH  
 RT APPLICATIONS OF MATHEMATICS  
 COMPUTERIZED SIMULATION  
 CONSTRAINTS  
 DECISION THEORY  
 EXPERIMENTAL DESIGN  
 #FORECASTING  
 #FUNCTIONS (MATHEMATICS)  
 INFORMATION THEORY  
 LAGRANGE MULTIPLIERS  
 LINEAR PREDICTION  
 #MANAGEMENT  
 MANAGEMENT METHODS  
 MANAGEMENT PLANNING  
 MATHEMATICAL MODELS  
 MINIMA  
 MISSION PLANNING  
 OPERATIONS  
 #OPTIMIZATION  
 PATHS  
 PROBABILITY THEORY  
 PROJECT PLANNING  
 QUALITY CONTROL  
 QUEUEING THEORY  
 RAND PROJECT  
 RAYLEIGH DISTRIBUTION  
 RESEARCH AND DEVELOPMENT  
 RESEARCH MANAGEMENT  
 RISK  
 SEQUENCING  
 #SIMULATION  
 #STATISTICAL ANALYSIS  
 #STOCHASTIC PROCESSES  
 STRATEGY  
 SYNTHESIS  
 SYSTEMS ANALYSIS  
 SYSTEMS ENGINEERING  
 SYSTEMS MANAGEMENT  
 TRAVELING SALESMAN PROBLEM  
 URBAN DEVELOPMENT  
 WAR GAMES  
 OPERATOR PERFORMANCE  
 0502 3406  
 BT #HUMAN PERFORMANCE

RT ASTRONAUT PERFORMANCE  
 MENTAL PERFORMANCE  
 PERFORMANCE  
 PILOT PERFORMANCE  
 PSYCHOMOTOR PERFORMANCE  
 OPERATORS  
 0502 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT OPERATORS (MATHEMATICS)  
 OPERATORS (PERSONNEL)  
 REACTOR CORES  
 OPERATORS (MATHEMATICS)  
 1902  
 UF DIFFERENTIAL OPERATORS  
 FREDHOLM OPERATORS  
 NT BERGHAN OPERATOR  
 RT #FUNCTIONS (MATHEMATICS)  
 INTEGRAL TRANSFORMATIONS  
 LAPLACE TRANSFORMATION  
 MATRIX THEORY  
 OPERATORS  
 PERTURBATION THEORY  
 S MATRIX THEORY  
 OPERATORS (PERSONNEL)  
 3406  
 NT AIRCRAFT PILOTS  
 PILOTS (PERSONNEL)  
 TEST PILOTS  
 BT #PERSONNEL  
 RT OPERATORS  
 OPHTHALMODYNAMOMETRY  
 0404 0405  
 RT BLOOD PRESSURE  
 EYE (ANATOMY)  
 VISION  
 OPHTHALMOLOGY  
 0401 0404 0405 0408  
 NT EYE EXAMINATIONS  
 RT EYE (ANATOMY)  
 EYE DISEASES  
 MIOSIS  
 OPIK THEORY  
 3001 3002 3009  
 RT NEBULAE  
 ORION CONSTELLATION  
 SUPERNOVAE  
 THEORIES  
 OPOSSUM  
 0402  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 OPTICAL ABSORPTION  
 USE ELECTROMAGNETIC ABSORPTION  
 LIGHT TRANSMISSION  
 OPTICAL AMPLIFIERS  
 USE LIGHT AMPLIFIERS  
 OPTICAL COMMUNICATION  
 0702 1601 2310  
 UF LASER COMMUNICATION  
 LIGHT COMMUNICATION  
 OPTICAL SIGNALS  
 BT #TELECOMMUNICATION  
 RT GROUND-AIR-GROUND COMMUNICATIONS  
 INTERPLANETARY COMMUNICATION  
 LASERS  
 LUNAR COMMUNICATION  
 SPACE COMMUNICATION  
 SPACECRAFT COMMUNICATION  
 VISUAL SIGNALS  
 WIRELESS COMMUNICATIONS  
 OPTICAL CORRECTION PROCEDURE  
 0405 2310 1712 2306  
 BT CORRECTION  
 PROCEDURES  
 RT ADJUSTING  
 ERRORS  
 INSTRUMENT ERRORS  
 LENS DESIGN  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOGRAPHS  
 POSITION ERRORS  
 SELF FOCUSING  
 OPTICAL COUPLING  
 1001 1002 1601 2310  
 BT COUPLING  
 RT COUPLES  
 CROSS COUPLING  
 LIGHT TRANSMISSION  
 MICROWAVE COUPLING

# NASA THESAURUS (ALPHABETICAL LISTING)

PHASE LOCKED SYSTEMS  
 POLARIZATION (WAVES)  
 OPTICAL DATA PROCESSING  
 0802 2306 2310 2402  
 BT #DATA PROCESSING  
 RT CHARACTER RECOGNITION  
 DATA ACQUISITION  
 #DATA PROCESSING EQUIPMENT  
 LASERS  
 #OPTICAL EQUIPMENT  
 PROCESSING  
 READERS  
 #SCANNERS  
 OPTICAL DENSITY  
 0601 1407 1411 2310 2306  
 RT DENSITY  
 MICRODENSITOMETERS  
 OPTICAL THICKNESS  
 TRANSLUCENCE  
 TRANSMITTANCE  
 TRANSPARENCY  
 TURBIDITY  
 UNDERWATER OPTICS  
 OPTICAL EMISSION  
 USE LIGHT EMISSION  
 OPTICAL EMISSION SPECTROSCOPY  
 2306 2310 2402  
 BT #SPECTROSCOPY  
 RT AURORAL SPECTROSCOPY  
 EMISSION SPECTRA  
 LIGHT (VISIBLE RADIATION)  
 #OPTICAL EQUIPMENT  
 0501 1412 2310  
 NT ASTRONOMICAL TELESCOPES  
 BAKER-NUNN CAMERA  
 BALLISTIC CAMERAS  
 BINOCULARS  
 CAMERAS  
 CATHETEROMETERS  
 CELESTIAL  
 CINETHODOLITES  
 COLLIMATORS  
 DELFT CAMERA  
 DIFFRACTOMETERS  
 EBERT SPECTROMETERS  
 ELECTROPHOTOMETERS  
 ELLIPSONETERS  
 ENDOSCOPES  
 EYEPIECES  
 FRAMING CAMERAS  
 GEODINETERS  
 HELIOMETERS  
 HIGH SPEED CAMERAS  
 IMAGE CONVERTERS  
 IMAGE TUBES  
 INFRARED SPECTROMETERS  
 INFRARED SPECTROPHOTOMETERS  
 LALLEMAND CAMERAS  
 LIGHT SCATTERING METERS  
 MICRODENSITOMETERS  
 MICROWAVE REFLECTOMETERS  
 MULTISPECTRAL BAND SCANNERS  
 NEPHELOMETERS  
 OPTICAL GYROSCOPES  
 OPTICAL MEASURING INSTRUMENTS  
 OPTICAL MICROSCOPES  
 OPTICAL PYROMETERS  
 OPTICAL RADAR  
 OPTICAL RANGE FINDERS  
 OPTICAL SCANNERS  
 PANORAMIC CAMERAS  
 PERISCOPES  
 PHOTOGRAPHIC RECTIFIERS  
 PHOTOMETERS  
 POLARIMETERS  
 POLARISCOPES  
 PRISMATIC BARS  
 PRISMS  
 PYROHELIONETERS  
 REFLECTOMETERS  
 REFRACTOMETERS  
 SCHMIDT CAMERAS  
 SEMANMONT POLARISCOPES  
 SEXTANTS  
 SPECTROPHOTOMETERS  
 SPECTROSCOPIC TELESCOPES  
 STRATOSCOPE TELESCOPES  
 STROBOSCOPES  
 TELEVISION CAMERAS  
 THEODOLITES  
 THERMICON

# NASA THESAURUS (ALPHABETICAL LISTING)

TRANSITS  
TRANSMISSOMETERS  
ULTRAVIOLET SPECTROMETERS  
ULTRAVIOLET SPECTROPHOTOMETERS  
WIDE ANGLE LENSES  
X RAY TELESCOPES  
RT ABSORPTION SPECTROSCOPY  
DENSITOMETERS  
FABRY-PEROT SPECTROMETERS  
HORIZON SCANNERS  
INFRARED SCANNERS  
INTERFEROMETERS  
LENSES  
MACH-ZEHNDER INTERFEROMETERS  
MICROCHANNELS  
MICROSCOPES  
MIRRORS  
MONOCHROMATORS  
MULTISPECTRAL TRACKING TELESCOPES  
OPTICAL DATA PROCESSING  
\*OPTICAL MEASUREMENT  
\*PHOTOGRAPHIC EQUIPMENT  
RADIO TELESCOPES  
REFLECTING TELESCOPES  
REFRACTING TELESCOPES  
RETICLES  
SCANNER PROJECT  
\*SCANNERS  
SPECTROMETERS  
\*TELESCOPES  
TRIPODS  
VIDEO EQUIPMENT  
OPTICAL FILTERS  
0501 1601 2306 2310 1412  
NT INFRARED FILTERS  
ULTRAVIOLET FILTERS  
BT \*ELECTRIC FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
RT ADAPTIVE FILTERS  
BANDPASS FILTERS  
DIAPHRAGMS (MECHANICS)  
GRATINGS  
GRATINGS (SPECTRA)  
HIGH PASS FILTERS  
LENSES  
LOW PASS FILTERS  
\*PHOTOGRAPHIC EQUIPMENT  
PHOTOGRAPHIC FILM  
ROWLAND CIRCLES  
SUNGLASSES  
\*TRANSMISSION  
OPTICAL GENERATORS  
USE LASERS  
OPTICAL GYROSCOPES  
1403 2103 2310  
BT \*GYROSCOPES  
\*OPTICAL EQUIPMENT  
RT OPTICAL MEASURING INSTRUMENTS  
OPTICAL HETERODYNING  
0905 2309 2310 2402  
BT HETERODYNING  
RT DOPPLER EFFECT  
LIGHT MODULATION  
OPTICAL RADAR  
OPTICAL ILLUSION  
0408 0410 2310  
NT ELEVATOR ILLUSION  
RT MOON ILLUSION  
OPTICAL IMAGES  
USE IMAGES  
OPTICAL MASER MODULATION  
USE LIGHT MODULATION  
OPTICAL MASERS  
USE LASERS  
\*OPTICAL MEASUREMENT  
0501 1406 1412 2310 1407 1411  
(MEASUREMENTS OF OPTICAL PROPERTIES,  
QUANTITIES OR CONDITIONS)  
NT ASTRONOMICAL PHOTOMETRY  
COLORIMETRY  
ELECTROPHOTOMETRY  
OPTOMETRY  
PHOTOMETRY  
POLARIMETRY  
SPECTROPHOTOMETRY  
STELLAR SPECTROPHOTOMETRY  
TELEPHOTOMETRY  
ULTRAVIOLET PHOTOMETRY  
VISUAL PHOTOMETRY  
RT CHEMICAL ANALYSIS  
COLLIMATORS  
DENSITOMETERS

DIFFRACOMETERS  
ELECTRO-OPTICAL PHOTOGRAPHY  
EMISSIVITY  
FARADAY EFFECT  
GEODIMETERS  
INTERFEROMETERS  
LIGHT (VISIBLE RADIATION)  
MEASUREMENT  
MICRODENSITOMETERS  
NEPHELOMETERS  
\*OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
OPTICAL PROPERTIES  
OPTICAL PYROMETERS  
OPTICAL THICKNESS  
PHASE CONTRAST  
PHOTOGRAPHIC MEASUREMENT  
PHOTOMETERS  
POLARIMETERS  
RAY TRACING  
REFLECTANCE  
REFLECTOMETERS  
REFRACTOMETERS  
SPECTRAL SIGNATURES  
SPECTROMETERS  
SPECTROPHOTOMETERS  
STROBOSCOPES  
OPTICAL MEASURING INSTRUMENTS  
0501 1404 1406 1407 1412 2310  
(INSTRUMENTS UTILIZING OPTICAL  
PRINCIPLES FOR MEASUREMENT)  
UP OPTICAL SENSORS  
PHOTOGRAPHIC RECORDING INSTRUMENTS  
NT CATHETOMETERS  
CINETHODOLITES  
DIFFRACOMETERS  
EBERT SPECTROMETERS  
ELECTROPHOTOMETERS  
ELLIPSONETERS  
GEODIMETERS  
INFRARED SPECTROMETERS  
INFRARED SPECTROPHOTOMETERS  
LIGHT SCATTERING METERS  
MICRODENSITOMETERS  
MICROWAVE REFLECTOMETERS  
NEPHELOMETERS  
OCULOMETERS  
OPTICAL PYROMETERS  
OPTICAL RANGE FINDERS  
OPTICAL SCANNERS  
PHOTOGRAMMETERS  
PHOTOMETERS  
POLARIMETERS  
REFLECTOMETERS  
REFRACTOMETERS  
SEXTANTS  
SPECTROPHOTOMETERS  
THEODOLITES  
TRANSITS  
TRANSMISSOMETERS  
ULTRAVIOLET SPECTROMETERS  
ULTRAVIOLET SPECTROPHOTOMETERS  
BT \*MEASURING INSTRUMENTS  
\*OPTICAL EQUIPMENT  
RT ABSORPTION SPECTROSCOPY  
CINESPECTROGRAPHS  
COLORIMETRY  
DENSITOMETERS  
FABRY-PEROT SPECTROMETERS  
GONIOMETERS  
GUIDANCE SENSORS  
INTERFEROMETERS  
MACH-ZEHNDER INTERFEROMETERS  
MICROSCOPES  
MIROS SYSTEM  
MONOCHROMATORS  
OPTICAL GYROSCOPES  
\*OPTICAL MEASUREMENT  
PERISCOPES  
POLARIMETRY  
POLARISCOPE  
RADIATION MEASURING INSTRUMENTS  
REFLECTING TELESCOPES  
REFRACTING TELESCOPES  
SELF FOCUSING  
SEARHOUT POLARISCOPE  
SOLAR INSTRUMENTS  
\*TELESCOPES  
OPTICAL METHODS  
USE OPTICS  
OPTICAL MICROSCOPES  
0501 2306 2310

## OPTICAL RADAR

BT MICROSCOPES  
\*OPTICAL EQUIPMENT  
RT ELECTRON MICROSCOPES  
OPTICAL MODULATION  
USE LIGHT MODULATION  
OPTICAL PATHS  
1601 2306 2310  
RT DIFFRACTION PATHS  
MULTIPATH TRANSMISSION  
OPTICAL THICKNESS  
PATHS  
PHASE CONTRAST  
PHOTON BEAMS  
UNDERWATER OPTICS  
VOIGT EFFECT  
WAVE DISPERSION  
OPTICAL POLARIZATION  
0710 2306 2310 2402  
RT CIRCULAR POLARIZATION  
OPTICAL PROPERTIES  
OPTICAL REFLECTION  
OPTICAL RESONANCE  
POLARIZED LIGHT  
POLARIZERS  
POLAROGRAPHY  
OPTICAL PROPERTIES  
2306 2310 2402  
(INCLUDES PROPERTIES AND EFFECTS OF  
VISIBLE, INFRARED AND ULTRAVIOLET  
ELECTROMAGNETIC WAVES)  
RT ALBEDO  
CLARITY  
\*COEFFICIENTS  
\*COHERENT RADIATION  
DARKNESS  
DIFFRACTION  
\*ELECTRICAL PROPERTIES  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
EMITTANCE  
EXCITONS  
FARADAY EFFECT  
GLARE  
GLASS  
HAZE  
ISOTROPY  
KERR ELECTROOPTICAL EFFECT  
KERR MAGNETOOPTICAL EFFECT  
LIGHT (VISIBLE RADIATION)  
LIGHT TRANSMISSION  
LUMENS  
LUMINANCE  
OPALESCENCE  
\*OPTICAL MEASUREMENT  
OPTICAL POLARIZATION  
OPTICS  
ORIENTATION  
PHOTOELECTRICITY  
PHOTONS  
PHOTOTROPISM  
PHYSICAL OPTICS  
PHYSICAL PROPERTIES  
POLARIZATION (WAVES)  
PROPERTIES  
SOLID STATE PHYSICS  
\*SURFACE PROPERTIES  
THERMOCHROMATIC MATERIALS  
\*THERMODYNAMIC PROPERTIES  
VISIBILITY  
WAVE DISPERSION  
OPTICAL PUMPING  
1601 2310  
RT LASERS  
OPTICAL RESONANCE  
PUMPING  
STIMULATED EMISSION  
\*STIMULATED EMISSION DEVICES  
OPTICAL PYROMETERS  
1408 2310  
BT \*MEASURING INSTRUMENTS  
\*OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RT \*OPTICAL MEASUREMENT  
RADIATION PYROMETERS  
OPTICAL RADAR  
0705 1601 2310  
UP LASER RADAR  
LIDAR  
BT \*OPTICAL EQUIPMENT  
\*RADAR  
RT LASER ALTIMETERS  
OPTICAL HETERODYNING

## OPTICAL RANGE FINDERS

OPTICAL RANGE FINDERS  
OPTICAL TRACKING  
OVER-THE-HORIZON RADAR  
RADAR DETECTION

OPTICAL RANGE FINDERS  
0705 2104 2310 1601

BT LASER RANGE FINDERS  
BT DISTANCE MEASURING EQUIPMENT  
#MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RANGE FINDERS

RT OPTICAL RADAR  
OPTICAL SLANT RANGE  
OPTICAL TRACKING

OPTICAL REFLECTION  
2306 2310 2402

BT #RATIOS  
RT ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
INCIDENT RADIATION  
INFRARED REFLECTION  
LIGHT TRANSMISSION  
OPTICAL POLARIZATION  
REFLECTANCE  
REFLECTED WAVES

OPTICAL RESONANCE  
2306 2310 2502 1601

BT #DECAY  
EMISSION  
LIGHT EMISSION  
LUMINESCENCE  
#RESONANCE  
RT OPTICAL POLARIZATION  
OPTICAL PUMPING  
PLASMA RADIATION  
PLASMA SPECTRA  
SPECTRUM ANALYSIS

OPTICAL RESONATORS  
USE LASERS

OPTICAL SATELLITE TRACKING PROGRAM  
0709 2310 3409

BT OPTICAL TRACKING  
SATELLITE TRACKING

OPTICAL SCANNERS  
2306 2310 2402

BT FLYING SPOT SCANNERS  
MULTISPECTRAL BAND SCANNERS

BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
#SCANNERS  
RT CHARACTER RECOGNITION  
DATA ACQUISITION  
MONITORS  
PHOTON BEAMS  
READERS  
TELEVISION CAMERAS

OPTICAL SENSORS  
USE OPTICAL MEASURING INSTRUMENTS

OPTICAL SIGNALS  
USE OPTICAL COMMUNICATION

OPTICAL SLANT RANGE  
2310 0709 1109

BT DISTANCE  
BT OPTICAL RANGE FINDERS  
RADAR RANGE

OPTICAL SPECTRUM  
USE LIGHT (VISIBLE RADIATION)  
#SPECTRA

OPTICAL THICKNESS  
1202 1203 1411 2306 2310

BT FERMAT PRINCIPLE  
OPTICAL DENSITY  
#OPTICAL MEASUREMENT  
OPTICAL PATHS  
REFRACTIVITY  
THICKNESS

OPTICAL TRACKING  
0709 1109 2310

UF VISUAL TRACKING  
BT #TRACKING (POSITION)  
RT BALLISTIC CAMERAS  
BORESIGHTS  
COMPENSATORY TRACKING  
GLOBAL TRACKING NETWORK  
INFRARED TRACKING  
MINITRACK SYSTEM  
MULTISPECTRAL TRACKING TELESCOPES  
OCULOMETERS  
OPTICAL RADAR  
OPTICAL RANGE FINDERS

OPTICAL SATELLITE TRACKING PROGRAM  
PHOTOGRAPHIC TRACKING  
RANGE AND RANGE RATE TRACKING  
SPACE DETECTION AND TRACKING SYSTEM  
SPACECRAFT TRACKING  
STADAN (SATELLITE TRACKING NETWORK)

OPTICAL TRANSITION  
2306 2310

RT ELECTRON TRANSITIONS  
EMISSION SPECTRA  
FRANCK-CONDON PRINCIPLE  
LUMINESCENCE

OPTICS  
2310  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UF GEOMETRICAL OPTICS  
OPTICAL METHODS

RT ANGULAR RESOLUTION  
ASPHERICITY  
ASTIGMATISM  
CASSEGRAIN OPTICS  
CRYSTAL OPTICS  
DEFOCUSING  
DIFFRACTION PATTERNS  
DIFFRACTION PROPAGATION  
ELECTRO-OPTICS  
ELECTRON OPTICS  
FIBER OPTICS  
FOCI  
HUYGENS PRINCIPLE  
IMAGING TECHNIQUES  
LENS DESIGN  
LENSES  
LIGHT (VISIBLE RADIATION)  
MIRRORS  
OPTICAL PROPERTIES  
PARALLAX  
PHOTICS  
PHOTOELASTIC ANALYSIS  
PHYSICAL OPTICS  
PREFOCUSING  
REFLECTION  
#RESOLUTION  
SHELLS LAW  
#SPECTROSCOPY  
UNDERWATER OPTICS

OPTICAL CONTROL  
1003 1902 1904 2102 3006 3009

UF OPTIMUM CONTROL  
RT TIME OPTIMAL CONTROL  
BT #AUTOMATIC CONTROL  
#OPTIMIZATION  
RT ADAPTIVE CONTROL  
CONTROL  
CONTROL THEORY  
FEEDBACK CONTROL  
FEEDFORWARD CONTROL  
INVENTORY CONTROLS  
KALMAN-SCHMIDT FILTERING  
TRAJECTORY CONTROL

#OPTIMIZATION  
1505 1902 1904

UF MINIMIZATION  
RT FLIGHT OPTIMIZATION  
OPTIMAL CONTROL  
TIME OPTIMAL CONTROL  
TRAJECTORY OPTIMIZATION  
APPLICATIONS OF MATHEMATICS  
BELLMAN THEORY  
BOLZA PROBLEMS  
CONSTRAINTS  
CORRELATION  
DESIGN  
DIFFERENTIAL CALCULUS  
#EFFICIENCY  
EXTREMUM VALUES  
#GRADIENTS  
KALMAN-SCHMIDT FILTERING  
LAGRANGE MULTIPLIERS  
LEAST SQUARES METHOD  
LINEAR PROGRAMMING  
MAXIMA  
MINIMA  
OPERATIONS RESEARCH  
PLANNING  
PONTYAGIN PRINCIPLE  
QUALITY CONTROL  
#RANGE (EXTREMES)  
REDUCTION  
SCHEDULING

## NASA THESAURUS (ALPHABETICAL LISTING)

STEEPEST DESCENT METHOD  
STOPPING  
TRAJECTORY CONTROL  
WIENER FILTERING

OPTIMUM CONTROL  
USE OPTIMAL CONTROL  
OPTIMUM THRUST PROGRAMMING  
USE THRUST PROGRAMMING

OPTIONS  
1902 3402 3406

RT ALTERNATIVES  
CONTRACTS  
#SELECTION  
SUBCONTRACTS

OPTOMETRY  
0405 0501 2306

BT #OPTICAL MEASUREMENT  
RT ANASTIGMATISM  
BLINDNESS  
EYE (ANATOMY)  
MEASUREMENT  
#MEDICAL SCIENCE  
VISION

OR-GATES  
USE GATES (CIRCUITS)

ORBIS  
0705 0710 1302 3107

UF ORBITING RADIO BEACON IONOSPHERIC  
SOUNDER

NT ORBIS CAL SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
SCIENTIFIC SATELLITES  
RT IONOSPHERIC PROPAGATION  
IONOSPHERIC SOUNDING  
RADIO BEACONS

ORBIS CAL SATELLITE  
0705 0710 1302 3107

BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GRAVITY GRADIENT SATELLITES  
ORBIS  
#SATELLITES  
SCIENTIFIC SATELLITES  
RT IONOSPHERIC PROPAGATION  
IONOSPHERIC SOUNDING  
RADIO BEACONS

ORBIT CALCULATION  
1901 1904 3006

UF OSCULATORY INTERPOLATION  
SATELLITE ORBIT CALCULATION  
RT MINIMUM VARIANCE ORBIT  
DETERMINATION  
BT #COMPUTATION  
RT FLIGHT MECHANICS  
ORBIT DECAY  
ORBIT PERTURBATION  
ORBITAL ELEMENTS  
ORBITAL MECHANICS  
ORBITAL POSITION ESTIMATION  
QUADRATURES

ORBIT DECAY  
1901 1904 3006

RT AERODYNAMIC DRAG  
#ATMOSPHERIC ENTRY  
FLIGHT MECHANICS  
ORBIT CALCULATION  
ORBIT PERTURBATION  
ORBITAL MECHANICS  
SATELLITE LIFETIME

ORBIT EQUATIONS  
USE ORBITAL MECHANICS

ORBIT PERTURBATION  
1901 1904 3006

UF EJECTION  
OSCULATORY INTERPOLATION  
RT SATELLITE PERTURBATION  
BT #PERTURBATION  
RT DRIFT RATE  
LONG TERM EFFECTS  
LUNAR EFFECTS  
ORBIT CALCULATION  
ORBIT DECAY  
ORBITAL ELEMENTS  
ORBITAL MECHANICS  
PERTURBATION THEORY  
VINI THEORY

ORBITAL ASSEMBLY  
2102 3006 3009 3110

UF SPACECRAFT ORBITAL ASSEMBLY  
BT ASSEMBLING

# NASA THESAURUS (ALPHABETICAL LISTING)

RT #EXPANDABLE STRUCTURES  
 INFLATABLE SPACECRAFT  
 SELF ERECTING DEVICES  
 #SPACE ERECTABLE STRUCTURES  
 SPACECRAFT MODULES  
 SPACECRAFT STRUCTURES  
 ORBITAL ELEMENTS  
 1901 1904 3006  
 RT ELEMENTS  
 ORBIT CALCULATION  
 ORBIT PERTURBATION  
 ORBITAL MECHANICS  
 PERTURBATION THEORY  
 SLATER ORBITALS  
 ORBITAL LAUNCHING  
 1901 1904 3006 3102  
 (LAUNCHING FROM AN ORBIT--EXCLUDES  
 LAUNCHING INTO ORBIT FROM GROUND)  
 .BT #LAUNCHING  
 ROCKET LAUNCHING  
 RT INTERPLANETARY TRAJECTORIES  
 LUNAR LAUNCH  
 ORBITAL MECHANICS  
 ORBITAL RENDEZVOUS  
 ORBITAL SHOTS  
 ORBITAL SPACE STATIONS  
 SPACECRAFT LAUNCHING  
 TRANSFER ORBITS  
 ORBITAL MECHANICS  
 1901 1904 2308 3006  
 UP ORBIT EQUATIONS  
 NT KEPLER LAWS  
 MINIMUM VARIANCE ORBIT  
 DETERMINATION  
 BT #CLASSICAL MECHANICS  
 SPACE MECHANICS  
 RT APSIDES  
 ASTRODYNAMICS  
 CELESTIAL MECHANICS  
 CIRCULAR ORBITS  
 DRIFT RATE  
 EARTH-MARS TRAJECTORIES  
 EARTH-MERCURY TRAJECTORIES  
 EARTH-MOON SYSTEM  
 EARTH ORBITAL RENDEZVOUS  
 EARTH ORBITS  
 ELLIPTICAL ORBITS  
 EQUATORIAL ORBITS  
 FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 HANSEN LUNAR THEORY  
 HILL LUNAR THEORY  
 HILL METHOD  
 INTERPLANETARY TRAJECTORIES  
 INTERPLANETARY TRANSFER ORBITS  
 LUNAR ORBITAL RENDEZVOUS  
 LUNAR ORBITS  
 MANY BODY PROBLEM  
 MECHANICS (PHYSICS)  
 MOON-EARTH TRAJECTORIES  
 ORBIT CALCULATION  
 ORBIT DECAY  
 ORBIT PERTURBATION  
 ORBITAL ELEMENTS  
 ORBITAL LAUNCHING  
 ORBITAL RENDEZVOUS  
 ORBITAL VELOCITY  
 #ORBITS  
 PARKING ORBITS  
 #PERTURBATION  
 PLANETARY LANDING  
 POYNTING-ROBERTSON EFFECT  
 QUADRATURES  
 #RENDEZVOUS  
 RENDEZVOUS TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 SATELLITE ORBITS  
 SATELLITE PERTURBATION  
 #SATELLITES  
 SATELLOIDS  
 SPACE NAVIGATION  
 SPACECRAFT ORBITS  
 STATIONKEEPING  
 SWINGBY TECHNIQUE  
 THRUST PROGRAMMING  
 TRAJECTORY ANALYSIS  
 TRANS-EARTH INJECTION  
 TRANSFER ORBITS  
 TRANSLUNAR INJECTION  
 TWENTY-FOUR HOUR ORBITS  
 TWO BODY PROBLEM

ORBITAL MOTION  
 USE #ORBITS  
 ORBITAL POSITION ESTIMATION  
 1901 1904 2103 2104 3009 3107  
 UP STATE ESTIMATION  
 BT ESTIMATING  
 RT CELESTIAL SPHERE  
 #NAVIGATION  
 ORBIT CALCULATION  
 ORIENTATION  
 POSITION (LOCATION)  
 POSITION ERRORS  
 RANGE  
 SATELLITE ORBITS  
 SPACECRAFT ORBITS  
 SPACECRAFT POSITION INDICATORS  
 ORBITAL RENDEZVOUS  
 1901 1904 3006  
 UP SATELLITE RENDEZVOUS  
 NT EARTH ORBITAL RENDEZVOUS  
 LUNAR ORBITAL RENDEZVOUS  
 BT #MANEUVERS  
 #RENDEZVOUS  
 SIDESLIP  
 SPACE RENDEZVOUS  
 RT ATLAS LAUNCH VEHICLES  
 MULTIPLE DOCKING ADAPTERS  
 ORBITAL LAUNCHING  
 ORBITAL MECHANICS  
 RENDEZVOUS GUIDANCE  
 RENDEZVOUS SPACECRAFT  
 RENDEZVOUS TRAJECTORIES  
 SPACECRAFT DOCKING  
 SPACECRAFT TRAJECTORIES  
 TETHERING  
 ORBITAL SHOTS  
 2102 3006 3110 3409  
 RT ORBITAL LAUNCHING  
 SHOT  
 SPACECRAFT LAUNCHING  
 ORBITAL SIMULATORS  
 USE SPACE SIMULATORS  
 ORBITAL SPACE STATIONS  
 3109  
 UP MANNED ORBITAL SPACE STATIONS  
 MOSS (SPACE STATIONS)  
 NT EOSS  
 HALO ORBIT SPACE STATION  
 ORBITAL WORKSHOPS  
 BT #MANNED SPACECRAFT  
 SPACE STATIONS  
 #STATIONS  
 RT EARTH SATELLITES  
 MANNED ORBITAL LABORATORIES  
 MANNED ORBITAL RESEARCH  
 LABORATORIES  
 ORBITAL LAUNCHING  
 SPACE BASES  
 SPACECRAFT DOCKING  
 ORBITAL TRANSFER  
 USE TRANSFER ORBITS  
 ORBITAL VELOCITY  
 2308 3006  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT ANGULAR VELOCITY  
 ESCAPE VELOCITY  
 HYPERVELOCITY  
 ORBITAL MECHANICS  
 VELOCITY ERRORS  
 ORBITAL WORKERS  
 0502 0506 0508 3104  
 BT ASTRONAUTS  
 FLYING PERSONNEL  
 #PERSONNEL  
 RT ASTRONAUT LOCOMOTION  
 EXTRA-VEHICULAR ACTIVITY  
 SPACE MAINTENANCE  
 SPACE TOOLS  
 WORK CAPACITY  
 ORBITAL WORKSHOPS  
 3109  
 BT ARTIFICIAL SATELLITES  
 #MANNED SPACECRAFT  
 ORBITAL SPACE STATIONS  
 #SATELLITES  
 SPACE STATIONS  
 #STATIONS  
 RT APOLLO EXTENSION SYSTEM  
 CONTAINERLESS HELTS  
 MANNED ORBITAL LABORATORIES  
 SKYLAB PROGRAM

## #ORBITS

ORBITALS  
 0603 2311 2401  
 NT ELECTRON ORBITALS  
 MOLECULAR ORBITALS  
 SLATER ORBITALS  
 RT #ORBITS  
 SCHWARZSCHILD METRIC  
 ORBITER PROJECT  
 3409  
 NT LUNAR ORBITER  
 BT PROJECTS  
 ORBITING ASTRONOMICAL OBSERVATORY  
 USE OAO  
 ORBITING DIPOLES  
 0707 0710 0901  
 BT #ELECTRIC CHARGE  
 ELECTRIC DIPOLES  
 RT #COMMUNICATION EQUIPMENT  
 DIPOLES  
 ORBITING GEOPHYSICAL OBSERVATORY  
 USE OGO  
 ORBITING RADIO BEACON IONOSPHERIC SOUNDER  
 USE ORBS  
 ORBITING SATELLITES  
 USE ARTIFICIAL SATELLITES  
 ORBITING SOLAR OBSERVATORY  
 USE OSO  
 ORBITRONS  
 1406 2401  
 RT ELECTRON CLOUDS  
 #ELECTRON TUBES  
 IONIZATION GAGES  
 SPACE CHARGE  
 VACUUM GAGES  
 #ORBITS  
 1904 3006  
 UP ORBITAL MOTION  
 PERIODIC ORBITS  
 NT APHELIONS  
 APOGEES  
 CIRCULAR ORBITS  
 EARTH ORBITS  
 ECCENTRIC ORBITS  
 ELLIPTICAL ORBITS  
 EQUATORIAL ORBITS  
 INTERPLANETARY TRANSFER ORBITS  
 LUNAR ORBITS  
 PARKING ORBITS  
 PERIGEE  
 PERIHELIONS  
 PLANETARY ORBITS  
 POLAR ORBITS  
 SATELLITE ORBITS  
 SOLAR ORBITS  
 SPACECRAFT ORBITS  
 STATIONARY ORBITS  
 TRANSFER ORBITS  
 TROJAN ORBITS  
 TWENTY-FOUR HOUR ORBITS  
 RT AIRBORNE RANGE AND ORBIT  
 DETERMINATION  
 APEXES  
 ARTIFICIAL SATELLITES  
 ASTRODYNAMICS  
 #CELESTIAL BODIES  
 #CELESTIAL MECHANICS  
 CONJUNCTION  
 EARTH SATELLITES  
 EARTH-VENUS TRAJECTORIES  
 EPHEMERIDES  
 FLIGHT OPTIMIZATION  
 FLIGHT PATHS  
 FOUR BODY PROBLEM  
 GROUND TRACKS  
 INCLINATION  
 INTERPLANETARY FLIGHT  
 LUNAR FLIGHT  
 MANY BODY PROBLEM  
 MOTION  
 ORBITAL MECHANICS  
 ORBITALS  
 PATHS  
 QUADRATURES  
 ROCHE LIMIT  
 SATELLITE GROUND TRACKS  
 #SATELLITES  
 SCHWARZSCHILD METRIC  
 #SPACE FLIGHT  
 SPACE NAVIGATION  
 SPACECRAFT GUIDANCE  
 STATIONKEEPING  
 SUBORBITAL FLIGHT

## ORCEIN

THREE BODY PROBLEM  
#TRAJECTORIES  
TWO BODY PROBLEM

## ORCEIN

0404 1808  
BT DYES  
ORDER-DISORDER TRANSFORMATIONS  
0601 1704 2601 2603  
RT ATOMIC STRUCTURE  
CRYSTAL DEFECTS  
#CRYSTAL LATTICES  
CRYSTAL STRUCTURE  
CRYSTALLOGRAPHY  
HOLES (ELECTRON DEFICIENCIES)  
METALLOGRAPHY  
MICROSTRUCTURE  
MOLECULAR STRUCTURE  
#PHASE TRANSFORMATIONS  
SOLID SOLUTIONS  
TRANSFORMATIONS

## ORDINATES

USE #COORDINATES

## ORDNANCE

3006 3401  
RT AIR TO SURFACE MISSILES  
AMMUNITION  
ARMOR  
BALLISTICS  
EXPLOSIVES  
GROUND SUPPORT EQUIPMENT  
PYROTECHNICS  
#TRAJECTORIES  
WARFARE  
#WEAPON SYSTEMS  
#WEAPONS  
ORDVAC COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT

## OREGON

1305  
BT UNITED STATES OF AMERICA

## ORES

USE #MINERALS  
ORGAN WEIGHT  
0401 0404 0405 0408  
BT WEIGHT (MASS)  
ORGANIC ALUMINUM COMPOUNDS  
1808 1704  
BT #ALUMINUM COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS

## ORGANIC BORON COMPOUNDS

0603 1808  
NT NONABORANE  
BT #BORON COMPOUNDS

## ORGANIC CHEMISTRY

0603 1808  
RT BIOCHEMISTRY  
CHEMISTRY  
DIELS-ALDER REACTIONS  
#ORGANIC COMPOUNDS  
ORGANIC MATERIALS  
PHYSIOCHEMISTRY

## #ORGANIC COMPOUNDS

0603 1808  
NT ACETIC ACID  
ADENINES  
ADENOSINE DIPHOSPHATE (ADP)  
ADENOSINE TRIPHOSPHATE (ATP)  
ADENOSINES  
AMIDASE  
AMINO ACIDS  
ASPARTATES  
ASPARTIC ACID  
CARBON TETRAFLUORIDE  
CASTOR OIL  
CHOLINE  
CYSTEINE  
ETHYLENEDIAMINETETRAACETIC ACIDS  
FATS  
FATTY ACIDS  
FLUORINE ORGANIC COMPOUNDS  
FLUORAMINES  
FLUOROCARBONS  
FLUOROHYDROCARBONS  
POLIC ACID  
GLUTAMIC ACID  
GLUTAMINE  
GLUTATHIONE  
GLYCINE  
HIPPURIC ACID  
HISTIDINE

## HYPERTENSIN

IODOACETIC ACID  
LEUCINE  
LIPOIC ACID  
LYSINE  
MELANOIDIN  
METHIONINE  
NITROFLUORAMINES  
NUCLEOTIDES  
OLEIC ACID  
ORGANIC LIQUIDS  
ORGANIC SULFUR COMPOUNDS  
OXIDASE  
PAPAIN  
PENTANONE  
PERFLUOROALKANE  
PERFLUOROGUANIDINE  
PHENYLALANINE  
PROPIONIC ACID  
PROTOPROTEINS  
PYRIDINE NUCLEOTIDES  
SEBACIC ACID  
THYROXINE  
TRIFLUORAMINE OXIDE  
TRYPTOPHAN  
URIDYLIC ACID  
VALERIC ACID  
VERSENE

## RT

#ACIDS  
AROMATIC COMPOUNDS  
CHEMICAL COMPOUNDS  
NITROSO COMPOUNDS  
ORGANIC CHEMISTRY  
ORGANIC MATERIALS  
ORGANIC SEMICONDUCTORS  
ORGANIC SULFUR COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS  
SALTS

## ORGANIC COOLANTS

1803 1808  
BT COOLANTS  
RT ORGANIC MATERIALS  
ORGANIC COOLED REACTORS  
1808 2202 2203 2204  
UP ORGEL REACTOR  
NT EXPERIMENTAL ORGANIC COOLED  
REACTORS

## BT

LIQUID COOLED REACTORS

## RT

#NUCLEAR REACTORS  
REACTOR DESIGN  
REACTOR TECHNOLOGY

## ORGANIC FLUORINE COMPOUNDS

USE FLUORINE ORGANIC COMPOUNDS

## ORGANIC GERMANIUM COMPOUNDS

1808 1704  
BT #GERMANIUM COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS

## ORGANIC LASERS

1601 1808  
BT LASERS  
#STIMULATED EMISSION DEVICES  
RT CARBON DIOXIDE LASERS  
CHEMICAL LASERS  
GAS LASERS  
INFRARED LASERS  
LIQUID LASERS

## ORGANIC LIQUIDS

0603 1808  
BT #LIQUIDS  
#ORGANIC COMPOUNDS  
RT ORGANIC MATERIALS  
PYROVATES  
XANTHIC ACIDS

## ORGANIC LITHIUM COMPOUNDS

1808  
BT #LITHIUM COMPOUNDS  
#ORGANOMETALLIC COMPOUNDS

## ORGANIC MATERIALS

1808 0603 1805 1809 1810 1811  
RT CORK (MATERIALS)  
COTTON FIBERS  
ELASTONERS  
LINEN  
MATERIALS  
MOLDS  
ORGANIC CHEMISTRY  
#ORGANIC COMPOUNDS  
ORGANIC COOLANTS  
ORGANIC LIQUIDS  
#PLASTICS  
POLYMERS  
ROSIN

## NASA THESAURUS (ALPHABETICAL LISTING)

## #RUBBER

SILK  
THERMOCHROMATIC MATERIALS  
WOOD  
WOOL

## ORGANIC MODERATED REACTORS

1808 2202 2203 2204  
NT EXPERIMENTAL ORGANIC COOLED  
REACTORS

## BT #NUCLEAR REACTORS

## ORGANIC NITRATES

0603 1808  
NT CELLULOSE NITRATE  
HYDRAZINE NITROFORM  
NITROFORMS  
NITROGLYCERIN  
PETN

## BT #ESTERS

## NITRATES

## #NITROGEN COMPOUNDS

## ORGANIC PHOSPHORUS COMPOUNDS

0603 1808  
NT PHOSPHONITRILES  
URIDYLIC ACID

## BT #PHOSPHORUS COMPOUNDS

## ORGANIC SEMICONDUCTORS

0603 1808 2602  
BT SEMICONDUCTORS (MATERIALS)  
RT CHEMICAL COMPOUNDS  
#CONDUCTORS

## #ORGANIC COMPOUNDS

## SEMICONDUCTOR DEVICES

## ORGANIC SILICON COMPOUNDS

0603 1808  
NT STANNOSILOXANE  
TRIPHENYL SILICON  
BT #SILICON COMPOUNDS  
ORGANIC SULFUR COMPOUNDS  
0603 1808

## BT #ORGANIC COMPOUNDS

## #SULFUR COMPOUNDS

## RT CHEMICAL COMPOUNDS

## COMPOUNDS

## #ORGANIC COMPOUNDS

## ORGANIC TIN COMPOUNDS

1808  
BT #ORGANOMETALLIC COMPOUNDS  
#TIN COMPOUNDS

## ORGANISMS

0402 0404 0409  
RT #ANIMALS  
DEEP SCATTERING LAYERS  
PHYSIOLOGY  
#PLANTS (BOTANY)

## #ORGANIZATIONS

3403  
UP ASSOCIATIONS  
NT BUREAUS (ORGANIZATIONS)  
FEDERATIONS  
NORTH ATLANTIC TREATY ORGANIZATION  
(NATO)

## RT CONGRESS

## TEAMS

## UNITED NATIONS

## ORGANIZING

3401 3402 3403 3406

## RT #PERSONNEL

## UNIONIZATION

## #ORGANOMETALLIC COMPOUNDS

1703 1808  
UP METALLOORGANIC COMPOUNDS  
NT ALKYLPERROCENE  
CARBOXYHEMOGLOBIN  
CHLOROPHYLLS  
PERROCENES  
HEMOGLOBIN  
METALLOXANE POLYMER  
ORGANIC ALUMINUM COMPOUNDS  
ORGANIC GERMANIUM COMPOUNDS  
ORGANIC LITHIUM COMPOUNDS  
ORGANIC TIN COMPOUNDS  
OXYHEMOGLOBIN  
PORPHINES

## RT

## CHELATES

## CHEMICAL COMPOUNDS

## METAL COMPOUNDS

## METALLOIDS

## METALLOSILOXANE POLYMER

## #ORGANIC COMPOUNDS

## ORGANOMETALLIC POLYMERS

1704 1808 1810

## RT

## POLYMERS

# NASA THESAURUS (ALPHABETICAL LISTING)

ORGANS  
0401 0404 0405  
BT BLADDER  
ESOPHAGUS  
KIDNEYS  
LIVER  
LUNGS  
OVARIES  
PITUITARY GLAND  
SPLEEN  
STOMACH  
TESTES  
BT #ANATOMY  
#VISCERA  
RT #DIGESTIVE SYSTEM  
GASTROINTESTINAL SYSTEM  
GLANDS (ANATOMY)  
PNEUMOTHORAX  
PULMONARY LESIONS  
ORGEL REACTOR  
USE ORGANIC COOLED REACTORS  
ORGUEIL METEORITE  
0401 3005 3009  
BT CARBONACEOUS METEORITES  
#CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES  
ORIC CYCLOTRON  
USE OAK RIDGE ISOCYCHRONOUS CYCLOTRON  
ORIENTATION  
0408 0502  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT ALIGNMENT  
ATTITUDE (INCLINATION)  
AZIMUTH  
BEARING (DIRECTION)  
BRAGG ANGLE  
COLLIMATION  
CRYSTALLOGRAPHY  
DIRECTIVITY  
#EDUCATION  
FIELD STRENGTH  
INSTRUMENT ORIENTATION  
ISOTROPY  
OPTICAL PROPERTIES  
ORBITAL POSITION ESTIMATION  
POLARIZATION (SPIN ALIGNMENT)  
POLARIZATION (WAVES)  
POSITION (LOCATION)  
POSITIONING  
SOUND LOCALIZATION  
VERTICAL PERCEPTION  
VISUAL PERCEPTION  
ORIFICE FLOW  
1202 1203 1204  
BT #FLUID FLOW  
RT CRITICAL FLOW  
FLOW  
GAS FLOW  
LAMINAR FLOW  
LIQUID FLOW  
MULTIPHASE FLOW  
ORIFICES  
PIPE FLOW  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
STEAM FLOW  
SUBCRITICAL FLOW  
SUPERCRITICAL FLOW  
TURBULENT FLOW  
UNSTEADY FLOW  
ORIFICES  
0101 0404 1201 1202 1305 1504 2806  
BT APERTURES  
CAVITIES  
CHOKES (FUEL SYSTEMS)  
CHOKES (RESTRICTIONS)  
DUCTS  
FLOW MEASUREMENT  
FLOWMETERS  
GAPS  
INJECTORS  
NOZZLES  
#OPENINGS  
OPERATIONS  
ORIFICE FLOW  
PORTS (OPENINGS)  
SPRAY NOZZLES

THROATS  
VENTURI TUBES  
ORIGINS  
0404 1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT TERMS LISTED BELOW)  
RT CAUSES  
#COORDINATES  
DERIVATION  
GRAPHS (CHARTS)  
ORION AIRCRAFT  
USE P-3 AIRCRAFT  
ORION CONSTELLATION  
3001 3009  
BT CONSTELLATIONS  
RT OPIK THEORY  
POLLUX STAR  
ORIONID METEORIDS  
3001 3005  
BT #CELESTIAL BODIES  
METEOROID SHOWERS  
METEORIDS  
RT AQUARIID METEORIDS  
ORLICZ SPACE  
1902  
RT SET THEORY  
ORNITHOPTER AIRCRAFT  
USE RESEARCH AIRCRAFT  
ORNSTEIN-UHLENBECK PROCESS  
2307 2401 2405  
RT PROCESSES  
OROGRAPHY  
1304 1305 1308  
BT GEOGRAPHY  
#GEOLOGY  
RT GEOMORPHOLOGY  
ISOSTASY  
MOUNTAINS  
VOLCANOLOGY  
ORRERIES  
USE ASTRONOMICAL MODELS  
ORTHICONS  
0701 0702 0905  
BT IMAGE ORTHICONS  
RT CAMERA TUBES  
#ELECTRON TUBES  
RT IMAGE INTENSIFIERS  
PHOTOCATHODES  
TELEVISION CAMERAS  
TELEVISION EQUIPMENT  
ORTHO HYDROGEN  
0603  
BT #CHEMICAL ELEMENTS  
#GASES  
HYDROGEN  
RT ORTHO PARA CONVERSION  
ORTHO PARA CONVERSION  
0403 0602 0603  
BT ISOMERIZATION  
RT ORTHO HYDROGEN  
PARA HYDROGEN  
ORTHOGONAL FUNCTIONS  
1902  
RT WALSH FUNCTION  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
RT BESSEL FUNCTIONS  
EXPONENTIAL FUNCTIONS  
FUNCTION SPACE  
HANKEL FUNCTIONS  
HYPERBOLIC FUNCTIONS  
LAGUERRE FUNCTIONS  
LEGENDRE FUNCTIONS  
LINEAR TRANSFORMATIONS  
MATHIEU FUNCTION  
ORTHOGONAL MULTIPLEXING THEORY  
ORTHOGONALITY  
ORTHONORMAL FUNCTIONS  
QUALITY CONTROL  
ORTHOGONAL MULTIPLEXING THEORY  
0702 0705 0710, 1002 2402  
RT ORTHOGONAL FUNCTIONS  
PULSE COMMUNICATION  
#SIGNAL TRANSMISSION  
THEORIES  
WAVE INTERACTION  
ORTHOGONALITY  
1902  
UF KRONECKER PRODUCT  
BT MULTIVARIATE STATISTICAL ANALYSIS  
RT COVARIANCE

## #OSCILLATIONS

EXPERIMENTAL DESIGN  
FACTOR ANALYSIS  
ORTHOGONAL FUNCTIONS  
QUALITY CONTROL  
ORTHOGRAPHY  
3405  
BT #LANGUAGES  
RT INTELLIGIBILITY  
#LINGUISTICS  
SEMANTICS  
SYNTAX  
WORDS (LANGUAGE)  
ORTHONORMAL FUNCTIONS  
1902 2311  
BT #FUNCTIONS (MATHEMATICS)  
RT ORTHOGONAL FUNCTIONS  
ORTHOPEDECS  
0404 0405 0408  
BT #MEDICAL SCIENCE  
ORTHOPHOTOGRAPHY  
1407  
BT MAPPING  
#PHOTOGRAPHY  
RT AERIAL PHOTOGRAPHY  
COLOR PHOTOGRAPHY  
MAPPING  
ORTHOSTATIC TOLERANCE  
0401 0405 0408  
RT BED REST  
BLOOD PRESSURE  
HUMAN TOLERANCES  
POSTURE  
TOLERANCES (PHYSIOLOGY)  
ORTHOTROPIC CYLINDERS  
3203  
RT CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL SHELLS  
ORTHOTROPIC PLATES  
ROCKET ENGINE CASES  
ORTHOTROPIC PLATES  
3203  
BT PLATES (STRUCTURAL MEMBERS)  
#STRUCTURAL MEMBERS  
RT ORTHOTROPIC CYLINDERS  
ORTHOTROPIC SHELLS  
3203  
RT CYLINDRICAL SHELLS  
BT #SHELLS (STRUCTURAL FORMS)  
RT METAL SHELLS  
REINFORCED SHELLS  
SHELL STABILITY  
THIN WALLED SHELLS  
ORTHOTROPISM  
0409 3408  
RT PLATES (STRUCTURAL MEMBERS)  
OSCILLATING CYLINDERS  
2308 3203  
RT CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL SHELLS  
#OSCILLATIONS  
#VIBRATION  
OSCILLATING FLOW  
1201 1202 1203  
BT #FLUID FLOW  
RT UNSTEADY FLOW  
BUFFETING  
COMPRESSIBILITY EFFECTS  
FLOW DISTORTION  
NONEQUILIBRIUM FLOW  
SMALL PERTURBATION FLOW  
STROUHAL NUMBER  
OSCILLATION DAMPERS  
1504  
RT ABSORBERS  
DAMPERS  
MAXWELL BODIES  
NONOSCILLATORY ACTION  
NONSTABILIZED OSCILLATION  
SPRINGS (ELASTIC)  
VIBRATION ISOLATORS  
#OSCILLATIONS  
0503 0905 1003 2301 2402 3204  
UF PERIODIC OSCILLATIONS  
PHUGOID OSCILLATIONS  
ELECTRON OSCILLATIONS  
R WAVES  
HARMONIC OSCILLATION  
HYDROFOIL OSCILLATIONS  
MOLECULAR OSCILLATIONS  
NONOSCILLATORY ACTION

# #OSCILLATORS

NONSTABILIZED OSCILLATION  
PLASMA OSCILLATIONS  
PRESSURE OSCILLATIONS  
SELF OSCILLATION  
STABLE OSCILLATIONS  
TRANSIENT OSCILLATIONS  
TRANSVERSE OSCILLATION  
UNDAMPED OSCILLATIONS  
WING OSCILLATIONS  
RT AMPLITUDES  
CRYSTAL OSCILLATORS  
DAMPING  
#FEEDBACK  
MOTION  
NONUNIFORMITY  
OSCILLATING CYLINDERS  
#OSCILLATORS  
PENDULUMS  
PERIODIC VARIATIONS  
#PERTURBATION  
#RESONANCE  
RESONANT VIBRATION  
RHYTHM  
SPACECRAFT MOTION  
SPRINGS (ELASTIC)  
TRAVELING WAVE TUBES  
#VIBRATION  
#VIBRATION TESTS  
#OSCILLATORS  
0904 1201  
UP PHUGOID OSCILLATIONS  
WAVE OSCILLATORS  
NT AUTODYNES  
CRYSTAL OSCILLATORS  
GYROSCOPIC PENDULUMS  
HARMONIC OSCILLATORS  
MECHANICAL OSCILLATORS  
MICROWAVE OSCILLATORS  
MOLECULAR OSCILLATORS  
PENDULUMS  
PHANTASTONS  
RELAXATION OSCILLATORS  
SYNCHRONIZED OSCILLATORS  
VACUUM TUBE OSCILLATORS  
RT #AMPLIFIERS  
AUTOMATIC FREQUENCY CONTROL  
CAVITY RESONATORS  
#CIRCUITS  
#ELECTRON TUBES  
#FEEDBACK  
FEEDBACK AMPLIFIERS  
FLIP-FLOPS  
FREQUENCY STABILITY  
FREQUENCY SYNTHESIZERS  
HARMONIC GENERATORS  
INVERTERS  
MAGNETRONS  
MOTION  
MULTIVIBRATORS  
NEGATIVE FEEDBACK  
NONOSCILLATORY ACTION  
NONSTABILIZED OSCILLATION  
#OSCILLATIONS  
PARAMETRONS  
PERIODIC VARIATIONS  
#PERTURBATION  
POSITIVE FEEDBACK  
RESONANT FREQUENCIES  
RESONATORS  
SELF EXCITATION  
SEMICONDUCTOR DEVICES  
SIGNAL GENERATORS  
SOLID STATE DEVICES  
SUBHARMONIC GENERATORS  
TRANSFORMERS  
#VIBRATION  
OSCILLOGRAMS  
USE OSCILLOGRAPHS  
OSCILLOGRAPHS  
0905 2402  
UP OSCILLOGRAMS  
BT #MEASURING INSTRUMENTS  
#RECORDING INSTRUMENTS  
RT BARKHAUSEN EFFECT  
ELECTRICAL MEASUREMENT  
OSCILLOSCOPES  
TIME MEASUREMENT  
OSCILLOSCOPES  
0905 2402  
RT CATHODE RAY TUBES  
ELECTRONIC EQUIPMENT TESTS  
FLYING SPOT SCANNERS

FREQUENCY ANALYZERS  
OSCILLOGRAPHS  
SWEEP FREQUENCY  
SYNCHROSCOPES  
VIDEO EQUIPMENT  
OSCULATIONS  
USE DOUBLE CUSPS  
OSCULATORY INTERPOLATION  
USE ORBIT CALCULATION  
ORBIT PERTURBATION  
OSEN APPROXIMATION  
1202 1203 1902  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
BT INCOMPRESSIBLE FLUIDS  
NAVIER-STOKES EQUATION  
ROSKO PREDICTION  
STOKES FLOW  
VISCOUS FLUIDS  
OSHUM  
0603 1703  
BT OSHUM ISOTOPES  
#METALS  
TRANSITION METALS  
OSHUM ALLOYS  
1701 1704  
BT #ALLOYS  
HEAT RESISTANT ALLOYS  
#REFRACTORY MATERIALS  
REFRACTORY METAL ALLOYS  
OSHUM COMPOUNDS  
0603 1804  
RT GROUP 8 COMPOUNDS  
METAL COMPOUNDS  
OSHUM ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
OSHUM  
#REFRACTORY MATERIALS  
REFRACTORY METALS  
TRANSITION METALS  
OSHOMETERS  
0501  
BT #MEASURING INSTRUMENTS  
PRESSURE GAGES  
OSMOSIS  
0404 0602  
UP HYPERTONIA  
OSMOTIC PRESSURE  
RT DEMINERALIZING  
DESALINIZATION  
DIAPHRAGMS (MECHANICS)  
#DIFFUSION  
EXTRACTION  
HOMEOSTASIS  
ISOTONICITY  
#MEMBRANES  
PERMEATING  
#PRESSURE  
SEPARATION  
WATER BALANCE  
OSMOTIC PRESSURE  
USE OSMOSIS  
OSO  
3001 3107 3409  
UP ORBITING SOLAR OBSERVATORY  
NT AOSO  
OSO-B  
OSO-C  
OSO-D  
OSO-E  
OSO-F  
OSO-G  
OSO-1  
OSO-2  
OSO-3  
OSO-4  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL OBSERVATORIES  
EARTH SATELLITES  
#OBSERVATORIES  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
RT THOR DELTA LAUNCH VEHICLE  
OSO-B  
3001 3009 3107 3409  
UP S-17 SATELLITE  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL OBSERVATORIES  
EARTH SATELLITES

# NASA THESAURUS (ALPHABETICAL LISTING)

#OBSERVATORIES  
OSO  
#SATELLITES  
#SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
OSO-C  
3001 3009 3107 3409  
UP S-57 SATELLITE  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL OBSERVATORIES  
EARTH SATELLITES  
#OBSERVATORIES  
OSO  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
OSO-E  
3001 3107  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL OBSERVATORIES  
#OBSERVATORIES  
OSO  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
OSO-F  
3107 3108  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GEOPHYSICAL OBSERVATORIES  
GEOPHYSICAL SATELLITES  
#OBSERVATORIES  
OSO  
#SATELLITES  
#UNMANNED SPACECRAFT  
OSO-G  
1308 3107 3108  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GEOPHYSICAL OBSERVATORIES  
GEOPHYSICAL SATELLITES  
#OBSERVATORIES  
OSO  
#SATELLITES  
#UNMANNED SPACECRAFT  
OSO-H  
3001 3009 3107 3409  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#OBSERVATORIES  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
OSO-1  
3001 3009 3107  
UP S-16 SATELLITE  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL OBSERVATORIES  
EARTH SATELLITES  
#OBSERVATORIES  
OSO  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
RT DELTA LAUNCH VEHICLE  
OSO-2  
3001 3009 3107  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL OBSERVATORIES  
EARTH SATELLITES  
#OBSERVATORIES  
OSO  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
RT DELTA LAUNCH VEHICLE  
OSO-3  
3001 3107  
BT ARTIFICIAL SATELLITES  
ASTRONOMICAL SATELLITES  
#OBSERVATORIES  
OSO  
#SATELLITES  
SOLAR OBSERVATORIES  
#UNMANNED SPACECRAFT  
OSO-4  
1308 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GEOPHYSICAL OBSERVATORIES  
GEOPHYSICAL SATELLITES  
#OBSERVATORIES

# NASA THESAURUS (ALPHABETICAL LISTING)

**OSPREY MISSILE**  
 3101 3401  
 BT #MISSILES  
 RT J-85 ENGINE  
**OT-2**  
 USE ESSA 2 SATELLITE  
**OT-3**  
 USE ESSA 1 SATELLITE  
**OTOLARYNGOLOGY**  
 0404 0405 0408  
 BT #MEDICAL SCIENCE  
 RT EAR  
**OTOLITH ORGANS**  
 0402 0404  
 BT #ANATOMY  
 GRAVIRECEPTORS  
 SENSE ORGANS  
 RT OCULOGRAVIC ILLUSIONS  
 VERTICAL PERCEPTION  
**OTOLOGY**  
 0404 0405 0408  
 BT #MEDICAL SCIENCE  
 RT EAR  
**OTTO CYCLE**  
 2701 2801  
 BT #CYCLES  
 THERMODYNAMIC CYCLES  
 RT RANKINE CYCLE  
**OUTCROPS**  
 1305 1306  
 RT FORMATIONS  
 #GEOLOGY  
**OUTER PLANETS EXPLORERS**  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 EXPLORER SATELLITES  
 #SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 PLYBY MISSIONS  
 GRAND TOURS  
 INTERPLANETARY FLIGHT  
 MARS PROBES  
 TOPS (SPACECRAFT)  
 VENUS PROBES  
**OUTER RADIATION BELT**  
 1302 2903 3009  
 BT CHARGED PARTICLES  
 #EARTH ATMOSPHERE  
 MAGNETICALLY TRAPPED PARTICLES  
 #PARTICLES  
 RADIATION BELTS  
 TRAPPED PARTICLES  
 RT ARTIFICIAL RADIATION BELTS  
 INNER RADIATION BELT  
 PROTON BELTS  
**OUTFLUX**  
 USE EXHAUSTING  
**OUTGASSING**  
 0905 3404  
 RT DEGASSING  
 DESORPTION  
 EVOLUTION (LIBERATION)  
 GAS EVOLUTION  
 PURGING  
 RESIDUAL GAS  
 TRANSPIRATION  
 VACUUM  
 VACUUM PUMPS  
**OUTLETS**  
 0902 0904  
 RT VENTS  
 APERTURES  
 CAVITIES  
 DISCHARGE  
 DOORS  
 DUCTS  
 EGRESS  
 EXHAUST NOZZLES  
 EXHAUST SYSTEMS  
 GATES (OPENINGS)  
 NOZZLES  
 #OPENINGS  
 OUTPUT  
 PIPE NOZZLES  
 PLUGS  
 PORTS (OPENINGS)  
 TERMINALS  
**OUTPUT**  
 0702 1001 1003 0803  
 UP DUMMY LOADS  
 RT LASER OUTPUTS

**MASER OUTPUTS**  
 RT CAPACITY  
 CATCHERS  
 DELIVERY  
 EFFLUX  
 INPUT  
 OUTLETS  
 PERFORMANCE  
 POWER CONDITIONING  
 PRINTOUTS  
 PRODUCTION  
 PRODUCTS  
 READOUT  
 SUPPLYING  
 TRANSFER FUNCTIONS  
 #TRANSMISSION  
 YIELD  
**OV-1 AIRCRAFT**  
 0207 3401  
 UP AO-1 AIRCRAFT  
 GRUMMAN OV-1C AIRCRAFT  
 HOHAWK AIRCRAFT  
 BT GRUMMAN AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 OBSERVATION AIRCRAFT  
 TURBOPROP AIRCRAFT  
**OV-10 AIRCRAFT**  
 0207  
 UP NA-300 AIRCRAFT  
 BT COIN AIRCRAFT  
 #JET AIRCRAFT  
 MONOPLANES  
 NORTH AMERICAN AIRCRAFT  
 OBSERVATION AIRCRAFT  
 TURBOPROP AIRCRAFT  
**OV-1 SATELLITES**  
 3107  
 BT #SATELLITES  
 SCIENTIFIC SATELLITES  
 RT GRAVITY GRADIENT SATELLITES  
 SPIN STABILIZATION  
**OV-2 SATELLITES**  
 3107  
 BT #SATELLITES  
 SCIENTIFIC SATELLITES  
 RT GRAVITY GRADIENT SATELLITES  
 SPIN STABILIZATION  
**OV-3 SATELLITES**  
 3107  
 BT #SATELLITES  
 SCIENTIFIC SATELLITES  
 RT GRAVITY GRADIENT SATELLITES  
 SPIN STABILIZATION  
**OV-4 SATELLITES**  
 3107  
 BT #SATELLITES  
 SCIENTIFIC SATELLITES  
 RT GRAVITY GRADIENT SATELLITES  
 SPIN STABILIZATION  
**OV-5 SATELLITES**  
 3107  
 BT #SATELLITES  
 SCIENTIFIC SATELLITES  
 RT GRAVITY GRADIENT SATELLITES  
 SPIN STABILIZATION  
**OVARIES**  
 0404 0405  
 BT #ANATOMY  
 ENDOCRINE GLANDS  
 GENITOURINARY SYSTEM  
 GLANDS (ANATOMY)  
 ORGANS  
 REPRODUCTIVE SYSTEMS  
 SEX GLANDS  
 #VISCERA  
 RT EGGS  
**OVERS**  
 1504 1704 3303 3404  
 BT #HEATING EQUIPMENT  
 RT BAKING  
 DRY HEAT  
 FURNACES  
**OVER-THE-HORIZON RADAR**  
 0705  
 BT #RADAR  
 SEARCH RADAR  
 RT EARLY WARNING SYSTEMS  
 MOVING TARGET INDICATORS  
 OPTICAL RADAR  
 RADAR DETECTION  
 RADAR RANGE

# OXIDES

**OVERCAST**  
 USE CLOUD COVER  
**OVERCOMPRESSION**  
 USE OVERCONSOLIDATION  
**OVERCONSOLIDATION**  
 3407  
 UP OVERCOMPRESSION  
 RT CONSOLIDATION  
 FOUNDATIONS  
**OVERESTIMATION**  
 USE ERRORS  
 ESTIMATING  
**OVEREXPOSURE**  
 USE RADIATION DOSAGE  
**OVERPRESSURE**  
 0710 1201 1202 1203 1308  
 BT #PRESSURE  
 RT BLAST LOADS  
 DYNAMIC PRESSURE  
**OVERTONES**  
 USE HARMONICS  
**OVERVOLTAGE**  
 0602 1001 2304  
 RT CIRCUIT PROTECTION  
 DECOMPOSITION  
 ELECTRIC POTENTIAL  
 GEIGER COUNTERS  
 POLARIZATION (CHARGE SEPARATION)  
 SURGES  
**OXYALATES**  
 0603 1808  
 RT COBALT OXYALATES  
 RT OXALIC ACID  
 OXYGEN COMPOUNDS  
**OXYALIC ACID**  
 0403 1808  
 BT #ACIDS  
 #ALIPHATIC COMPOUNDS  
 CARBOXYLIC ACIDS  
 RT OXYALATES  
**OXYAZOLE**  
 0403 0603 1808  
 BT AZOLES  
 #HETEROCYCLIC COMPOUNDS  
**OXYDASE**  
 0403 0603 1808  
 BT #ACIDS  
 ENZYMES  
 #ORGANIC COMPOUNDS  
 #PROTEINS  
**OXYDATION**  
 0603 1702 3301 3407  
 RT ELECTROCHEMICAL OXIDATION  
 PHOTOOXIDATION  
 RUSTING  
 BT #CHEMICAL REACTIONS  
 RT CHARRING  
 CHEMICAL ATTACK  
 #COMBUSTION  
 CORROSION  
 DEGRADATION  
 DEHYDROGENATION  
 ELECTRON TRANSFER  
 EPOXIDATION  
 FUEL COMBUSTION  
 HYDROCARBON COMBUSTION  
 METAL COMBUSTION  
 #OXIDIZERS  
 OXYGENATION  
 PASSIVITY  
 REDUCTION (CHEMISTRY)  
 ROASTING  
 THERMAL RESISTANCE  
**OXYDATION RESISTANCE**  
 0602 3001  
 BT CORROSION RESISTANCE  
 RT PASSIVITY  
 RESISTANCE  
 RUSTING  
 SILICONIZING  
 THERMAL RESISTANCE  
**OXYDES**  
 0603 1704 1805  
 RT AERMANITE  
 ALKALINE EARTH OXIDES  
 ALUMINUM OXIDES  
 ANATASE  
 ANHYDRIDES  
 BARIUM OXIDES  
 BERYLLIUM OXIDES  
 BISMUTH OXIDES  
 BORON OXIDES



# #OXIDIZERS

BRUCITE  
CALCIUM OXIDES  
CARBON DIOXIDE  
CARBON MONOXIDE  
CERIUUM OXIDES  
CESIUM OXIDES  
CHLORINE OXIDES  
CHROMITES  
CHROMIUM OXIDES  
COBALT OXIDES  
COESITE  
COPPER OXIDES  
DIOXIDES  
ENSTATITE  
FLINT  
GERMANIUM OXIDES  
HAFNIUM OXIDES  
HEAVY WATER  
HEMATITE  
HOPCALITE (TRADEMARK)  
HYDROGEN PEROXIDE  
ILMENITE  
INORGANIC PEROXIDES  
IRON OXIDES  
LANTHANUM OXIDES  
LEAD OXIDES  
LITHIUM OXIDES  
MAGNESIUM OXIDES  
MAGNETITE  
MANGANESE OXIDES  
MERCURY OXIDES  
METAL OXIDES  
MOLYBDENUM OXIDES  
MUSCOVITE  
NEPHELINE  
NICKEL OXIDES  
NIOBIUM OXIDES  
NITRIC OXIDE  
NITROGEN DIOXIDE  
NITROGEN OXIDES  
NITROGEN TETROXIDE  
NITROUS OXIDES  
NORBERGITE  
PERICLASE  
PEROXIDES  
PHOSPHORUS OXIDES  
PLATINUM OXIDES  
PLUTONIUM OXIDES  
POTASSIUM OXIDES  
POTASSIUM PEROXIDES  
PYROXENES  
QUARTZ  
RUTILE  
SAPPHIRE  
SCANDIUM OXIDES  
SCHEELITE  
SELENIUM OXIDES  
SILICON DIOXIDE  
SILICON OXIDES  
SILVER OXIDES  
SODIUM PEROXIDES  
SPODUMENE  
SULFUR OXIDES  
TANTALUM OXIDES  
THORIUM OXIDES  
TIN OXIDES  
TITANIUM OXIDES  
TUNGSTEN OXIDES  
URANIUM OXIDES  
VANADIUM OXIDES  
YTTRIUM OXIDES  
ZINC OXIDES  
ZIRCONIUM OXIDES  
BT #CHALCOGENIDES  
RT ANODIC COATINGS  
EUXENITE  
INSULATION  
METAL COATINGS  
NIOBATES  
NONFLAMMABLE MATERIALS  
OXYGEN COMPOUNDS  
WATER  
#OXIDIZERS  
0603 1702 3301  
NT FLOY  
HIGH ENERGY OXIDIZERS  
LIQUID OXIDIZERS  
LIQUID OXYGEN  
ROCKET OXIDIZERS  
BT AGENTS  
AIR POLLUTION  
FLUORINE

#FUELS  
OXIDATION  
OXIMETRY  
0405 0501  
BT BLOOD  
HYPEROXIA  
HYPOXIA  
OXYGEN CONSUMPTION  
OXYACETYLENE  
0603 1808  
BT #ALIPHATIC COMPOUNDS  
ALKYNES  
#HYDROCARBONS  
RT ACETYLENE  
DETONABLE GAS MIXTURES  
OXYGEN COMPOUNDS  
OXYALKYLATION  
USE ALKYLATION  
OXYFLUORIDES  
0603  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
RT OXYGEN COMPOUNDS  
OXYGEN  
0603 1807  
BT HIGH PRESSURE OXYGEN  
LIQUID OXYGEN  
OXYGEN ATOMS  
OXYGEN ISOTOPES  
OXYGEN 18  
OZONATES  
OZONE  
OZONIDES  
BT #GASES  
RT OXYGEN AFTERGLOW  
SCHUMANN-RUNGE BANDS  
OXYGEN AFTERGLOW  
0602 0603 2405  
BT AFTERGLOWS  
RT OXYGEN  
OXYGEN ANALYZERS  
0603 0905 1409  
UP OXYGEN DETECTORS  
OXYGEN SENSORS  
BT #MEASURING INSTRUMENTS  
RT GAS ANALYSIS  
OXYGEN ATOMS  
0603 1807 2401  
BT ATOMS  
OXYGEN  
OXYGEN BREATHING  
0402 0404 0408  
RT OXYGEN MASKS  
OXYGEN COMPOUNDS  
0603 1804 1808  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ACIDS  
ALUMINATES  
ARSENATES  
BORATES  
BRONATES  
#CARBOHYDRATES  
CARBONATES  
CHLORATES  
CHROMATES  
GERMANIUM OXIDES  
NIOBATES  
OXALATES  
OXIDES  
OXYACETYLENE  
OXYFLUORIDES  
OXYGEN FLUORIDES  
OZONATES  
OZONE FLUORIDE  
OZONIDES  
STANNATES  
OXYGEN CONSUMPTION  
0404 0408 0506 0603  
BT CONSUMPTION  
RT HYPEROXIA  
HYPOXIA  
#METABOLISM  
OXIMETRY  
OXYGEN DEFICIENCY  
USE HYPOXIA  
OXYGEN DETECTORS  
USE OXYGEN ANALYZERS

# NASA THESAURUS (ALPHABETICAL LISTING)

OXYGEN FLUORIDES  
0603 1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
RT OXYGEN COMPOUNDS  
OXYGEN ISOTOPES  
0603 1804  
RT OXYGEN 18  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
OXYGEN  
OXYGEN MASKS  
0202 0506 0508  
BT BREATHING APPARATUS  
MASKS  
OXYGEN SUPPLY EQUIPMENT  
RT HIGH ALTITUDE BREATHING  
LIFE SUPPORT SYSTEMS  
OXYGEN BREATHING  
PORTABLE LIFE SUPPORT SYSTEMS  
OXYGEN METABOLISM  
0404  
BT #METABOLISM  
RT RESPIRATION  
OXYGEN PRODUCTION  
0404 0602  
RT CLOSED ECOLOGICAL SYSTEMS  
GAS EXCHANGE  
OXYGEN RECOMBINATION  
0602 0603  
BT ATOMIC RECOMBINATION  
#CHEMICAL REACTIONS  
#RECOMBINATION REACTIONS  
RT #IONIZATION  
OXYGEN REGULATORS  
0401 0501 0504 0507  
BT #REGULATORS  
RT FLOW REGULATORS  
PRESSURE REGULATORS  
OXYGEN SENSORS  
USE OXYGEN ANALYZERS  
OXYGEN SPECTRA  
0603 1411 2402 2405  
BT #SPECTRA  
RT AIRGLOW  
HERZBERG BANDS  
MOLECULAR SPECTRA  
SOLAR SPECTRA  
OXYGEN SUPPLY EQUIPMENT  
0603 1507 3404  
UP OXYGEN SYSTEMS  
NT OXYGEN MASKS  
RT AIR CONDITIONING EQUIPMENT  
BREATHING APPARATUS  
CABIN ATMOSPHERES  
COMPRESSED AIR  
#CONTROLLED ATMOSPHERES  
EMERGENCY LIFE SUSTAINING SYSTEMS  
LIFE SUPPORT SYSTEMS  
PRESSURIZED CABINS  
SURVIVAL EQUIPMENT  
OXYGEN SYSTEMS  
USE OXYGEN SUPPLY EQUIPMENT  
OXYGEN TENSION  
0402 0404 0408  
NT HYPOXEMIA  
BT PARTIAL PRESSURE  
#PRESSURE  
OXYGEN TOXICITY  
USE HYPEROXIA  
OXYGEN 18  
0603 1807 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
OXYGEN  
OXYGEN ISOTOPES  
OXYGENATION  
0602 0603  
BT #CHEMICAL REACTIONS  
RT AERATION  
OXIDATION  
OXYHALIDES  
0603  
BT HALIDES  
#HALOGEN COMPOUNDS  
OXYHEMOGLOBIN  
0404 0603 1808  
BT #CELLS (BIOLOGY)

**NASA THESAURUS (ALPHABETICAL LISTING)**

**OZONOSPHERE**

HEMOGLOBIN  
 #ORGANOMETALLIC COMPOUNDS  
 #PROTEINS  
 RT ERYTHROCYTES  
 OZONATES  
 0603 1804  
 BT OXYGEN  
 OZONE  
 RT OXYGEN COMPOUNDS  
 OZONE  
 0603 1804 2003  
 NT OZONATES  
 OZONIDES  
 BT OXYGEN  
 RT OZONOMETRY  
 OZONE FLUORIDE  
 0603 1804  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 RT OXYGEN COMPOUNDS  
 OZONIDES  
 0603 1804  
 BT OXYGEN  
 OZONE  
 RT OXYGEN COMPOUNDS  
 OZONOMETRY  
 0603 1406  
 BT CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 GAS ANALYSIS  
 RT OZONE  
 OZONOSPHERE  
 1302 2003  
 BT #EARTH ATMOSPHERE  
 LOWER ATMOSPHERE  
 RT CHEMOSPHERE  
 HOMOSPHERE  
 UMKEHR EFFECT  
 UPPER ATMOSPHERE

Page 11 of 11

# P

P-3 AIRCRAFT  
0207 3401  
UP ORION AIRCRAFT  
P3V AIRCRAFT  
BT ANTISUBMARINE WARFARE AIRCRAFT  
JET AIRCRAFT  
LOCKHEED AIRCRAFT  
RT TURBOPROP ENGINES  
P-16 AIRCRAFT  
0207 3401  
UP APU P-16 AIRCRAFT  
BT JET AIRCRAFT  
P-51 AIRCRAFT  
0207  
UP MUSTANG AIRCRAFT  
BT NORTH AMERICAN AIRCRAFT  
P-84 AIRCRAFT  
USE JET PROVOST AIRCRAFT  
P-160 AIRCRAFT  
0207  
UP ME P-160 AIRCRAFT  
MESSERSCHMITT ME P-160 AIRCRAFT  
P-166 AIRCRAFT  
0207  
UP PIAGGIO P-166 AIRCRAFT  
BT LIGHT AIRCRAFT  
PASSENGER AIRCRAFT  
PIAGGIO AIRCRAFT  
TRANSPORT AIRCRAFT  
P-308 AIRCRAFT  
0207  
UP ME P-308 AIRCRAFT  
MESSERSCHMITT ME P-308 AIRCRAFT  
P-1052 AIRCRAFT  
0201 0207  
UP HAWKER P-1052 AIRCRAFT  
BT HAWKER SIDDELEY AIRCRAFT  
JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
P-1067 AIRCRAFT  
0201 0207  
BT ATTACK AIRCRAFT  
MONOPLANES  
P-1127 AIRCRAFT  
0201 0207 0209  
UP HAWKER P-1127 AIRCRAFT  
KESTREL AIRCRAFT  
VZ-12 AIRCRAFT  
XV-6A AIRCRAFT  
BT HAWKER SIDDELEY AIRCRAFT  
JET AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
TURBOPAN AIRCRAFT  
V-STOL AIRCRAFT  
RT BRISTOL-SIDDELEY BS 53 ENGINE  
HARRIER AIRCRAFT  
TURBOPAN ENGINES  
P-1154 AIRCRAFT  
0201 0207 0209  
UP HAWKER P-1154 AIRCRAFT  
BT HAWKER SIDDELEY AIRCRAFT  
JET AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
SUPERSONIC AIRCRAFT  
TURBOPAN AIRCRAFT  
V-STOL AIRCRAFT  
RT TURBOPAN ENGINES  
P BAND  
0702 0705 0710 1002 2402  
BT FREQUENCIES  
MICROWAVE FREQUENCIES  
RADIO FREQUENCIES  
ULTRAHIGH FREQUENCIES  
VERY HIGH FREQUENCIES  
P-1 ENGINE  
2808  
BT BOOSTER ROCKET ENGINES  
ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
P-531 HELICOPTER  
0206 0207  
UP SCOUT HELICOPTER  
WESTLAND P-531 HELICOPTER  
BT HELICOPTERS

ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
V-STOL AIRCRAFT  
WESTLAND AIRCRAFT  
RT PASSENGER AIRCRAFT  
P-I-N DIODES  
USE DIODES  
P-I-N JUNCTIONS  
P-I-N JUNCTIONS  
0906 2602  
UP P-I-N DIODES  
BT SEMICONDUCTOR JUNCTIONS  
P-N JUNCTIONS  
0906 2602  
UP N-P JUNCTIONS  
BT SEMICONDUCTOR JUNCTIONS  
P-N-P JUNCTIONS  
0906 2602  
BT SEMICONDUCTOR JUNCTIONS  
P-N-P-N JUNCTIONS  
0902 2602  
BT SEMICONDUCTOR JUNCTIONS  
RT JUNCTIONS  
P-TYPE SEMICONDUCTORS  
0906 2602  
BT SEMICONDUCTORS (MATERIALS)  
RT HOLES (ELECTRON DEFICIENCIES)  
SEMICONDUCTOR JUNCTIONS  
P WAVES  
0710 1202 1307 1308  
BT ELASTIC WAVES  
RT COMPRESSIBLE FLUIDS  
COMPRESSION WAVES  
DILATATIONAL WAVES  
S WAVES  
SEISMIC WAVES  
SURFACE WAVES  
P.A.C.M. TELEMETRY  
0702 0708  
BT SIGNAL TRANSMISSION  
TELECOMMUNICATION  
TELEMETRY  
RT AMPLITUDE MODULATION  
COMMUNICATION EQUIPMENT  
MODULATION  
PULSE AMPLITUDE MODULATION  
PULSE CODE MODULATION  
PACIFIC ISLANDS  
1305  
BT JAPAN  
JOHNSTON ISLAND  
KURILE ISLANDS  
NEW ZEALAND  
PHILIPPINES  
SAMOA  
BT ISLANDS  
RT PACIFIC OCEAN  
PACIFIC OCEAN  
1305 1310  
BT OCEANS  
RT PACIFIC ISLANDS  
PACKAGES  
0202 1103 1502 1504 3203 3404  
BT APOLLO LUNAR SURFACE EXPERIMENTS  
PACKAGE  
RT BAGS  
BOXES (CONTAINERS)  
BUNDLES  
CARTRIDGES  
CASES (CONTAINERS)  
CONTAINERS  
INSTRUMENTS  
PACKAGING  
PACKAGING  
1002 3404  
BT ELECTRONIC PACKAGING  
CONTAINERS  
CORROSION PREVENTION  
ENCAPSULATING  
ENCLOSURE  
HAULING  
INHIBITORS  
MARKING  
MATERIALS HANDLING  
PACKAGES  
PACKING  
PRESERVING  
SEALERS  
SPIRAL WRAPPING  
STORAGE  
TRANSPORTATION

VERMICULITE  
WEATHERPROOFING  
WRAP  
PACKING  
1103 1502 1504 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT PACKAGING  
PACKING DENSITY  
PACKINGS (SEALS)  
SEALING  
PACKING DENSITY  
2404 2601  
BT DENSITY (NUMBER/VOLUME)  
RT BRAVAIS CRYSTALS  
CRYSTAL STRUCTURE  
CRYSTALS  
PACKING  
VOID RATIO  
PACKINGS (SEALS)  
1501 1504  
BT SEALS (STOPPERS)  
RT BEARINGS  
GLANDS (SEALS)  
PACKING  
PUMPS  
SEALERS  
SEALING  
SHAFTS (MACHINE ELEMENTS)  
VALVES  
PAD  
0403 0903 1104 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CUSHIONS  
FOUNDATIONS  
LAUNCHING PADS  
PADDLES  
1504  
RT FOLDING STRUCTURES  
MIXERS  
SOLAR GENERATORS  
TURBOMACHINE BLADES  
PADE APPROXIMATION  
1902  
BT ANALYSIS (MATHEMATICS)  
APPROXIMATION  
CALCULUS  
NUMERICAL ANALYSIS  
REAL VARIABLES  
SERIES (MATHEMATICS)  
PAGEOS SATELLITE  
2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
GEODETIC SATELLITES  
PASSIVE SATELLITES  
SATELLITES  
UNMANNED SPACECRAFT  
RT EXPLORER 29 SATELLITE  
EXPLORER 36 SATELLITE  
GEOS-C SATELLITE  
GEOS 1 SATELLITE  
GEOS 2 SATELLITE  
PAIN  
0401 0404 0405 0408  
BT ANALGESIA  
PAIN SENSITIVITY  
0404 0408  
BT PERCEPTION  
SENSITIVITY  
SENSORY PERCEPTION  
PAINTS  
1802 1808 3404  
BT COATINGS  
RT FILLERS  
FINISHES  
METAL COATINGS  
PIGMENTS  
PRIMERS (COATINGS)  
PROTECTIVE COATINGS  
RUBBER COATINGS  
SEALERS  
SPRAYED COATINGS  
TURPENTINE  
VARNISHES  
PAIR PRODUCTION  
2403 2405 3407  
BT ELECTROMAGNETIC ABSORPTION  
ELECTRON EMISSION

# PAKISTAN

ELECTRON PHOTON CASCADES  
EMISSION  
HIGH ENERGY INTERACTIONS  
#NUCLEAR REACTIONS  
PHOTOPRODUCTION  
POSITRON ANNIHILATION  
POSITRONS

PAKISTAN  
1305  
RT ASIA  
NATIONS

PALEOMAGNETISM  
1304 1306 1307  
BT #MAGNETIC FIELDS  
#MAGNETIC PROPERTIES  
BT CONTINENTAL DRIFT  
#GEOLOGY  
GEOMAGNETISM  
GEOPHYSICS  
REMANENCE  
ROCKS  
VOLCANOLOGY

PALEONTOLOGY  
1304 1306 1308  
RT FORMATIONS  
FOSSILS  
GEOCHEMISTRY  
GEOCHRONOLOGY  
#GEOLOGY  
HISTORIES  
PRECAMBRIAN PERIOD  
STRATIGRAPHY

PALLADIUM  
0603 1703  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS

PALLADIUM ALLOYS  
1701 1704  
BT #ALLOYS

PALLADIUM COMPOUNDS  
0603  
RT CHEMICAL COMPOUNDS  
COMPOUNDS  
TRANSITION METALS

PALMAR SWEAT INDEX  
0408 0410 0501  
RT PERSPIRATION  
#STRESS (PHYSIOLOGY)  
STRESS (PSYCHOLOGY)

PALMGREN-MINER RULE  
0201 3203 3204  
UF MINER RULE  
BT #RULES  
RT FATIGUE LIFE

PALMITIC ACID  
0403 1808  
BT #ACIDS  
FATTY ACIDS  
RT FATS

PAM (MODULATION)  
USE PULSE AMPLITUDE MODULATION

PANAMA  
1305  
RT CANALS

PANAVIA MILITARY AIRCRAFT  
0101 0206 3403  
RT AIRCRAFT DESIGN  
FIGHTER AIRCRAFT  
MILITARY AIRCRAFT  
VARIABLE SWEEP WINGS  
#WEAPON SYSTEMS

PANCREAS  
0404 0405 0408  
BT #ANATOMY  
#DIGESTIVE SYSTEM  
ENDOCRINE GLANDS  
GLANDS (ANATOMY)  
#VISCERA  
BT DIABETES MELLITUS  
GASTROINTESTINAL SYSTEM

PANEL FLUTTER  
0201 0202 1507  
BT FLUTTER  
SELF INDUCED VIBRATION  
STRUCTURAL VIBRATION  
#VIBRATION  
BT AERODYNAMIC NOISE  
AEROELASTICITY  
BENDING VIBRATION

PANELS  
3202 3203 3406 3409

(EXCLUDES GROUPS OF PEOPLE)

HT CURVED PANELS  
RECTANGULAR PANELS  
WING PANELS

RT BAPPLES  
CEILINGS (ARCHITECTURE)  
CONSTRUCTION MATERIALS  
DIVIDERS  
FLAT PLATES  
PLATES  
SHEETS  
#SHIELDING  
THIN PLATES  
WALLS

PANIC  
0408 0410  
RT EMOTIONAL FACTORS  
EMOTIONS  
FEAR  
HUMAN BEHAVIOR

PANORAMIC CAMERAS  
1407 1412  
BT CAMERAS  
#OPTICAL EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT

RT CAMERA SHUTTERS  
FOCUSING  
LENSES  
#PHOTOGRAPHY  
WIDE ANGLE LENSES

PANORAMIC SCANNING  
0702 0705  
BT #SCANNING  
RT CONICAL SCANNING  
FREQUENCY SCANNING  
MULTISPECTRAL BAND SCANNERS  
RADAR SCANNING  
#SCANNERS  
SEARCHING  
SURVEILLANCE

PANTAR CHONDRITES  
1806 3005  
BT #CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES

PANTHER AIRCRAFT  
USE F-9 AIRCRAFT

PAPAIN  
0603 1808  
BT #ACIDS  
AMINO ACIDS  
ENZYMES  
#ORGANIC COMPOUNDS  
RT PEP SIN  
PAPER CHROMATOGRAPHY  
0601 0602  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT GAS CHROMATOGRAPHY

PAPERS  
3405  
BT #DOCUMENTS  
RT BOARDS (PAPER)  
#FIBERS  
FILMS  
LAMINATES  
LITERATURE  
PROCEEDINGS  
REPORTS  
SHEETS  
WEBS (SHEETS)

PAPILLAE  
0402 0404  
RT PROTUBERANCES

PARA HYDROGEN  
0603  
BT #CHEMICAL ELEMENTS  
#GASES  
HYDROGEN  
RT ORTHO PARA CONVERSION

PARABOLAS  
1902  
BT ANALYTIC GEOMETRY  
CONICS  
EUCLIDEAN GEOMETRY  
#GEOMETRY

PARABOLIC ANTENNAS  
0701 0705 0905 0901  
BT ANTENNAS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS

# NASA THESAURUS (ALPHABETICAL LISTING)

RT ANTENNA DESIGN  
CASSEGRAIN ANTENNAS  
HORN ANTENNAS  
MICROWAVE ANTENNAS  
PARABOLIC REFLECTORS  
RADAR ANTENNAS  
#RADAR EQUIPMENT  
RADAR REFLECTORS

PARABOLIC BODIES  
1902  
UF PARABOLOIDS  
BT BODIES OF REVOLUTION  
#SYMMETRICAL BODIES

PARABOLIC DIFFERENTIAL EQUATIONS  
1902  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES

PARABOLIC FLIGHT  
0201 1904 3006  
RT ASCENT TRAJECTORIES  
BALLISTIC TRAJECTORIES  
CLIMBING FLIGHT  
COASTING FLIGHT  
DESCENT TRAJECTORIES  
FLIGHT  
MIDCOURSE TRAJECTORIES  
MISSILE TRAJECTORIES  
SUBORBITAL FLIGHT  
#TRAJECTORIES  
WEIGHTLESSNESS  
WEIGHTLESSNESS SIMULATION

PARABOLIC REFLECTORS  
0705 0710 0901  
UF DISHES  
NT PARABOLOID MIRRORS  
BT #REFLECTORS  
RT MICROWAVE ANTENNAS  
PARABOLIC ANTENNAS  
RADAR REFLECTORS  
SCHWARZSCHILD ANTENNAS  
SOLAR REFLECTORS

PARABOLIC VELOCITY  
USE ESCAPE VELOCITY

PARABOLOID MIRRORS  
0710 0901 2306 2310  
BT MIRRORS  
PARABOLIC REFLECTORS  
#REFLECTORS  
RT REFLECTING TELESCOPES  
SOLAR REFLECTORS

PARABOLOIDS  
USE PARABOLIC BODIES

PARACHUTE DESCENT  
0208  
UF HALO PARACHUTING  
PARACHUTING  
BT DESCENT  
RT BAILLOUT  
EJECTION  
EJECTION TRAINING  
ESCAPE (ABANDONMENT)  
FREE FALL  
PARACHUTES

PARACHUTE FABRICS  
0208 1811  
BT FABRICS  
RT FORTISAN (TRADEMARK)  
GORES  
PARACHUTES

PARACHUTES  
0203 0208 0508  
NT DRAG CHUTES  
RECOVERY PARACHUTES  
RIBBON PARACHUTES  
ROTOCHUTES  
RT BALLUTES  
#BRAKES (FOR ARRESTING MOTION)  
FOLDING STRUCTURES  
PARACHUTE DESCENT  
PARACHUTE FABRICS  
PARAVULCOONS  
PARAWINGS  
TOWED BODIES

PARACHUTING  
USE PARACHUTE DESCENT

PARACHUTING INJURY  
0405 0408  
BT #INJURIES

PARADOXES  
1902 2311 3406  
BT #KNOWLEDGE

# NASA THESAURUS (ALPHABETICAL LISTING)

PHILOSOPHY  
 RT LOGIC  
 RELATIVITY  
 PARAPHYNS  
 0603 1808  
 NT CERESIN  
 BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 RT HYDROCARBON FUELS  
 KEROSENE  
 PARAGLIDERS  
 0201 0205  
 NT FLEXIBLE WINGS  
 INFLATABLE GLIDERS  
 PARAWINGS  
 BT #GLIDERS  
 RT FOLDING STRUCTURES  
 HYPERSONIC GLIDERS  
 SUBSONIC AIRCRAFT  
 PARALLAX  
 1901 2306 2310 3001  
 NT SOLAR PARALLAX  
 RT ASTROMETRY  
 COMPANION STARS  
 OPTICS  
 PARALLEL PLATES  
 0904 0905 1202 2304 2310 3203  
 RT CAPACITORS  
 CHANNELS  
 FLAT PLATES  
 METAL PLATES  
 PLATES  
 THIN PLATES  
 WAVEGUIDES  
 PARALLEL PROCESSING (COMPUTERS)  
 0802  
 BT #DATA PROCESSING  
 PARALLEL PROGRAMMING  
 0802  
 BT COMPUTER PROGRAMMING  
 PARALLELEPIPEDS  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYHEDRONS  
 PARALLOGRAMS  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYGONS  
 TETRAGONS  
 PARALYSIS  
 0404 0405 0408  
 BT #DISEASES  
 #INJURIES  
 RT TREMORS  
 PARAMAGNETIC AMPLIFIERS  
 USE MASERS  
 PARAMAGNETIC RESONANCE  
 2307 2311  
 NT ELECTRON PARAMAGNETIC RESONANCE  
 BT MAGNETIC RESONANCE  
 #RESONANCE  
 RT ABSORPTION SPECTRA  
 FERROMAGNETIC RESONANCE  
 NUCLEAR MAGNETIC RESONANCE  
 PARAMAGNETISM  
 PARAMAGNETISM  
 2307 2311  
 BT #MAGNETIC PROPERTIES  
 RT ANTIFERROMAGNETISM  
 CURIE-WEISS LAW  
 DIAMAGNETISM  
 PARAMAGNETIC RESONANCE  
 PARANECIA  
 0402 0407  
 NT ROTIFERA  
 BT #ANIMALS  
 INVERTEBRATES  
 #MICROORGANISMS  
 PROTOZOA  
 PARAMETERIZATION  
 1902 1905  
 RT ALGORITHMS  
 APPLICATIONS OF MATHEMATICS  
 DEPENDENT VARIABLES  
 DERIVATION  
 DIMENSIONAL ANALYSIS  
 ESTIMATORS  
 FORMALISM  
 FORMULATIONS

MATHEMATICAL MODELS  
 SCALE EFFECT  
 SEMIEMPIRICAL EQUATIONS  
 UNITS OF MEASUREMENT  
 PARAMETERS  
 USE INDEPENDENT VARIABLES  
 PARAMETRIC AMPLIFIERS  
 0701 0905 1201  
 UF PARAMETRIC OSCILLATORS  
 BT #AMPLIFIERS  
 RT FREQUENCY CONVERTERS  
 LC CIRCUITS  
 MAGNETOSTATIC AMPLIFIERS  
 MICROWAVE AMPLIFIERS  
 NEGATIVE RESISTANCE DEVICES  
 PARAMETRIC FREQUENCY CONVERTERS  
 POWER AMPLIFIERS  
 SEMICONDUCTOR DEVICES  
 PARAMETRIC DIODES  
 0903 0905 2602  
 BT #DIODES  
 #ELECTRONIC EQUIPMENT  
 SEMICONDUCTOR DEVICES  
 SOLID STATE DEVICES  
 RT VARACTOR DIODES  
 PARAMETRIC FREQUENCY CONVERTERS  
 0701 0905 2402  
 UF UP CONVERTERS  
 BT FREQUENCY CONVERTERS  
 RT CONVERTERS  
 PARAMETRIC AMPLIFIERS  
 PHASE MODULATION  
 PARAMETRIC OSCILLATORS  
 USE PARAMETRIC AMPLIFIERS  
 PARAMETRIC AMPLIFIERS  
 0801  
 RT #COMPUTER STORAGE DEVICES  
 MAGNETIC CORES  
 MAGNETIC STORAGE  
 #OSCILLATORS  
 PHASE LOCK DEMODULATORS  
 THIN FILMS  
 PARANASAL SINUSES  
 0404 0405  
 BT SINUSES  
 RT NOSE (ANATOMY)  
 PARAPLASTS  
 0404 0405  
 RT PLASTERS  
 BT #RESINS  
 PARAPSYCHOLOGY  
 USE EXTRASENSORY PERCEPTION  
 PARASITES  
 0402 0404 0409  
 BT #PLANTS (BOTANY)  
 RT #ANIMALS  
 PARASITIC DISEASES  
 0405 0408  
 BT #DISEASES  
 RT AIRBORNE INFECTION  
 AMOEBA  
 ANTHELMINTICS  
 CHOLERA  
 FUNGI  
 INFECTIOUS DISEASES  
 TRYPAOSOME  
 PARATHYROID GLAND  
 0405 0408  
 BT #ANATOMY  
 ENDOCRINE GLANDS  
 GLANDS (ANATOMY)  
 #VISCERA  
 RT CALCIUM METABOLISM  
 PARAVULCOONS  
 0203 0208  
 BT AERODYNAMIC BRAKES  
 #BRAKES (FOR ARRESTING MOTION)  
 #DRAG DEVICES  
 #EXPANDABLE STRUCTURES  
 INFLATABLE STRUCTURES  
 RT BALLOONS  
 FOLDING STRUCTURES  
 PARACHUTES  
 PARAWINGS  
 0102 0103 0104  
 BT #AIRFOILS  
 FLEXIBLE WINGS  
 #GLIDERS  
 PARAGLIDERS  
 WINGS  
 RT FOLDING STRUCTURES  
 PARACHUTES

# PARTICLE ACCELERATOR TARGETS

PARENTERAL FUNCTIONS  
 0404  
 RT FUNCTIONS  
 PARENTS  
 0404 0410 3402  
 RT CHILDREN  
 HUMAN BEINGS  
 PARITY  
 0802 2403 2405  
 RT BCH CODES  
 CODING  
 CONSERVATION  
 CORRECTION  
 EQUIVALENCE  
 ERROR DETECTION CODES  
 INFORMATION THEORY  
 #NUCLEAR PHYSICS  
 PARTICLE SPIN  
 QUANTUM NUMBERS  
 QUANTUM THEORY  
 STRANGENESS  
 VECTOR CURRENTS  
 PARKING  
 0201 1101 3006  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT PARKING ORBITS  
 RAMPS (STRUCTURES)  
 PARKING ORBITS  
 1904 3006 3009  
 BT #ORBITS  
 SATELLITE ORBITS  
 SPACECRAFT ORBITS  
 RT EARTH-MOON TRAJECTORIES  
 EARTH ORBITS  
 FLIGHT OPTIMIZATION  
 INTERPLANETARY TRAJECTORIES  
 LUNAR ORBITS  
 LUNAR TRAJECTORIES  
 ORBITAL MECHANICS  
 PARKING  
 PLANETARY ORBITS  
 SATELLOIDS  
 THRUST PROGRAMMING  
 TRANSFER ORBITS  
 PARKINSON DISEASE  
 0405 0408  
 BT #DISEASES  
 RT TREMORS  
 PAROTID GLAND  
 USE SALIVARY GLANDS  
 PARTIAL DIFFERENTIAL EQUATIONS  
 1902  
 NT BIHARMONIC EQUATIONS  
 BT #ANALYSIS (MATHEMATICS)  
 DIFFERENTIAL EQUATIONS  
 REAL VARIABLES  
 RT BOLTZMANN-VLASOV EQUATION  
 CAUCHY-RIEMANN EQUATIONS  
 FUNCTIONAL INTEGRATION  
 KINETIC EQUATIONS  
 LAPLACE EQUATION  
 METHOD OF CHARACTERISTICS  
 NEUMANN PROBLEM  
 POISSON EQUATION  
 WAVE EQUATIONS  
 PARTIAL PRESSURE  
 0603 1203  
 NT HYPOXEMIA  
 OXYGEN TENSION  
 BT #PRESSURE  
 RT DALTON LAW  
 GAS PRESSURE  
 HENRY LAW  
 INTERNAL PRESSURE  
 RAULT LAW  
 RESIDUAL GAS  
 TENSION  
 VAPOR PRESSURE  
 PARTICLE ACCELERATION  
 2202 2403 2405  
 BT ACCELERATION (PHYSICS)  
 #RATES (PER TIME)  
 RT #MAGNETIC FIELDS  
 #PARTICLE ACCELERATORS  
 PARTICLE MOTION  
 PARTICLE PRODUCTION  
 PLASMA ACCELERATION  
 RACETRACKS (PARTICLE ACCELERATORS)  
 PARTICLE ACCELERATOR TARGETS  
 2202 2403 2405

# #PARTICLE ACCELERATORS

BT #TARGETS  
 RT #PARTICLE ACCELERATORS  
 PARTICLE BEAMS  
 TARGET THICKNESS  
 #PARTICLE ACCELERATORS  
 2202 2403 2405  
 NT BETATRONS  
 CYCLIC ACCELERATORS  
 CYCLOTRONS  
 ELECTRON ACCELERATORS  
 GEOCYCLOTRONS  
 ION ACCELERATORS  
 LINEAR ACCELERATORS  
 MICROTRONS  
 NIMROD ACCELERATOR  
 OAK RIDGE ISOCRONOUS CYCLOTRON  
 OREGATRONS  
 STORAGE RINGS (PARTICLE  
 ACCELERATORS)  
 SYNCHROCYCLOTRONS  
 SYNCHROPHASOTRONS  
 SYNCHROTRONS  
 VAN DE GRAAFF ACCELERATORS  
 RT ACCELERATORS  
 BEAM SPLITTERS  
 ELECTRON GUNS  
 ELEMENTARY PARTICLES  
 #ION SOURCES  
 KAON PRODUCTION  
 NEUTRON SOURCES  
 NUCLEAR PARTICLES  
 PARTICLE ACCELERATION  
 PARTICLE ACCELERATOR TARGETS  
 PARTICLE BEAMS  
 PARTICLE PRODUCTION  
 PARTICLE TRAJECTORIES  
 RACETRACKS (PARTICLE ACCELERATORS)  
 PARTICLE BEAMS  
 1002 1804 2403 2502  
 NT ATOMIC BEAMS  
 ELECTRON BEAMS  
 ION BEAMS  
 MOLECULAR BEAMS  
 NEUTRAL BEAMS  
 NEUTRON BEAMS  
 PION BEAMS  
 PROTON BEAMS  
 BT #BEAMS (RADIATION)  
 RT BEAM SPLITTERS  
 ELECTRON BOMBARDMENT  
 FLUX (RATE)  
 PARTICLE ACCELERATOR TARGETS  
 #PARTICLE ACCELERATORS  
 PHOTON BEAMS  
 PARTICLE CHARGING  
 1804 2304 2403  
 RT CHARGED PARTICLES  
 PARTICLE CLOUDS  
 USE #CLOUDS  
 PARTICLE COLLISIONS  
 1203 2202 2403 2405  
 BT COLLISIONS  
 RT ATOMIC COLLISIONS  
 ATOMIC EXCITATIONS  
 FADDEEV EQUATIONS  
 KINETICS  
 MEAN FREE PATH  
 MOLECULAR COLLISIONS  
 MOLECULAR EXCITATION  
 NUCLEON-NUCLEON SCATTERING  
 PARTICLE DIFFUSION  
 PARTICLE MOTION  
 PARTICLE THEORY  
 PARTICLE TRAJECTORIES  
 #SCATTERING  
 PARTICLE COUNTERS  
 USE RADIATION COUNTERS  
 PARTICLE DECAY  
 USE RADIOACTIVE DECAY  
 PARTICLE DENSITY (CONCENTRATION)  
 2901 2902 2903  
 NT ELECTRON DENSITY (CONCENTRATION)  
 ELECTRON DENSITY PROFILES  
 ELECTRON DISTRIBUTION  
 ION DENSITY (CONCENTRATION)  
 IONOSPHERIC ELECTRON DENSITY  
 IONOSPHERIC ION DENSITY  
 MAGNETOSPHERIC ELECTRON DENSITY  
 MAGNETOSPHERIC ION DENSITY  
 MAGNETOSPHERIC PROTON DENSITY  
 PLASMA DENSITY  
 PROTON DENSITY (CONCENTRATION)

BT #DENSITY (NUMBER/VOLUME)  
 RT ATMOSPHERIC DENSITY  
 IONOSPHERIC COMPOSITION  
 PARTICLE FLUX DENSITY  
 SPACE DENSITY  
 SPATIAL DISTRIBUTION  
 PARTICLE DETECTORS  
 USE RADIATION COUNTERS  
 PARTICLE DIFFUSION  
 1203 2403 2405  
 NT ELECTRON DIFFUSION  
 BT #DIFFUSION  
 RT ATOMIC BEAMS  
 BOLTZMANN TRANSPORT EQUATION  
 DIFFUSION COEFFICIENT  
 DROP SIZE  
 FLUX (RATE)  
 GASEOUS SELF-DIFFUSION  
 MOLECULAR DIFFUSION  
 PARTICLE COLLISIONS  
 PARTICLE MOTION  
 PARTICLE EMISSION  
 2402 2403 2406 2502  
 NT ELECTRON EMISSION  
 FIELD EMISSION  
 ION EMISSION  
 NEUTRON EMISSION  
 PHOTOELECTRIC EMISSION  
 SECONDARY EMISSION  
 BT #DECAY  
 EMISSION  
 RT EXPULSION  
 SELF SUSTAINED EMISSION  
 STIMULATED EMISSION  
 #PARTICLE ENERGY  
 2401  
 NT ELECTRON ENERGY  
 ELECTRON STATES  
 PROTON ENERGY  
 RT ENERGY  
 INTERNAL ENERGY  
 KINETIC ENERGY  
 MONOCHROMATIZATION  
 PARTICLE INTENSITY  
 PARTICLE FLUX  
 USE FLUX (RATE)  
 PARTICLE FLUX DENSITY  
 2311 2401  
 (PARTICLE EMISSION OR DETECTION RATE  
 PER UNIT AREA)  
 NT ELECTRON FLUX DENSITY  
 NEUTRON FLUX DENSITY  
 PROTON FLUX DENSITY  
 BT FLUX DENSITY  
 RADIANT FLUX DENSITY  
 #RATES (PER TIME)  
 RT PARTICLE DENSITY (CONCENTRATION)  
 PARTICLE INTENSITY  
 RADIANCE  
 RADIATION COUNTERS  
 RADIATION PRESSURE  
 SOLAR CONSTANT  
 SOLAR FLUX DENSITY  
 PARTICLE IN CELL TECHNIQUE  
 1902 2403  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT CELLS  
 #CRYSTAL LATTICES  
 FLOW EQUATIONS  
 METHODOLOGY  
 PARTICLE INTENSITY  
 2202 2307 2403 3009  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #PARTICLE ENERGY  
 PARTICLE FLUX DENSITY  
 #PARTICLE INTERACTIONS  
 2311 2404 2405  
 NT ELECTRON CAPTURE  
 ION ATOM INTERACTIONS  
 MOLECULAR COLLISIONS  
 MOLECULAR INTERACTIONS  
 NUCLEAR CAPTURE  
 NUCLEAR INTERACTIONS  
 SPIN-ORBIT INTERACTIONS  
 RT #CHEMICAL REACTIONS  
 COLLISION PARAMETERS  
 ELECTRON PHOTON INTERACTIONS  
 ELECTRON SCATTERING  
 FEYNMAN DIAGRAMS

# BASA THESAURUS (ALPHABETICAL LISTING)

HIGH ENERGY INTERACTIONS  
 INTERACTIONS  
 #NUCLEAR REACTIONS  
 PARTICLE TRAJECTORIES  
 PHOTONUCLEAR REACTIONS  
 PARTICLE MASS  
 2202 2403 2405  
 NT ELECTRON MASS  
 BT #MASS  
 RT MAGNETIC RIGIDITY  
 NUCLIDES  
 PARTICLE MOTION  
 2202 2307 2308 2403  
 RT ELECTROPHORESIS  
 FALLING  
 LATTICE VIBRATIONS  
 MAGNETIC RIGIDITY  
 MEAN FREE PATH  
 MOTION  
 PARTICLE ACCELERATION  
 PARTICLE COLLISIONS  
 PARTICLE DIFFUSION  
 PARTICLE TRAJECTORIES  
 RECOILINGS  
 RELATIVISTIC VELOCITY  
 SETTLING  
 PARTICLE PRODUCTION  
 2202 2203 2403  
 NT KAON PRODUCTION  
 RT COMMINUTION  
 CORPUSCULAR RADIATION  
 HIGH ENERGY INTERACTIONS  
 NUCLEAR RADIATION  
 #NUCLEAR REACTIONS  
 PARTICLE ACCELERATION  
 #PARTICLE ACCELERATORS  
 #PARTICLES  
 RADIOACTIVITY  
 SPALLATION  
 PARTICLE SIZE DISTRIBUTION  
 2403 2405 2502  
 RT #DIMENSIONS  
 DROP SIZE  
 FINENESS  
 FINES  
 FRACTIONS  
 #PARTICLES  
 PRECIPITATION PARTICLE MEASUREMENT  
 SIZE DETERMINATION  
 SIZE SEPARATION  
 SOLIDS FLOW  
 PARTICLE SPIN  
 2405  
 BT #SPIN  
 RT ANGULAR MOMENTUM  
 NUCLEAR MAGNETIC RESONANCE  
 #NUCLEAR PHYSICS  
 PARITY  
 PARTICLE TRAJECTORIES  
 SPIN RESONANCE  
 PARTICLE TELESCOPES  
 1412  
 UF ELECTRON TELESCOPES  
 GER TELESCOPES  
 GODDARD EXPERIMENT PACKAGE  
 TELESCOPE  
 PROTON TELESCOPES  
 BT COUNTERS  
 #MEASURING INSTRUMENTS  
 RADIATION COUNTERS  
 #TELESCOPES  
 RT ASTRONOMICAL TELESCOPES  
 GEIGER COUNTERS  
 SCINTILLATION COUNTERS  
 PARTICLE THEORY  
 2202 2403 2405  
 RT BODY KINEMATICS  
 COLLISION PARAMETERS  
 INTERACTIONS  
 MANY BODY PROBLEM  
 PARTICLE COLLISIONS  
 PLASMA-PARTICLE INTERACTIONS  
 THEORIES  
 PARTICLE TRACKS  
 USE PARTICLE TRAJECTORIES  
 PARTICLE TRAJECTORIES  
 2401 2403  
 UF PARTICLE TRACKS  
 NT ELECTRON TRAJECTORIES  
 BT #TRAJECTORIES  
 RT BUBBLE CHAMBERS  
 CHARGED PARTICLES

# NASA THESAURUS (ALPHABETICAL LISTING)

ELECTRON OPTICS  
 #IONIZING RADIATION  
 MOTION  
 #PARTICLE ACCELERATORS  
 PARTICLE COLLISIONS  
 #PARTICLE INTERACTIONS  
 PARTICLE MOTION  
 PARTICLE SPIN  
 PATHS  
 RACETRACKS (PARTICLE ACCELERATORS)  
 TRACKS  
 #PARTICLES  
 1503 1506 1703 1805 1901 2403  
 UP RADIOACTIVE FALLOUT PARTICLES  
 NT AEROSOLS  
 ALPHA PARTICLES  
 ANIONS  
 ANTINEUTRINOS  
 ANTINEUTRONS  
 ANTIPARTICLES  
 ANTIPROTONS  
 ARTIFICIAL RADIATION BELTS  
 BARYON RESONANCES  
 BETA PARTICLES  
 BOSONS  
 CATIONS  
 CHARGED PARTICLES  
 COLD NEUTRONS  
 CONDUCTION ELECTRONS  
 CORPUSCULAR RADIATION  
 CYCLOTRON RADIATION  
 DEUTERONS  
 DROPS (LIQUIDS)  
 ELECTRON BEAMS  
 ELECTRON PRECIPITATION  
 ELECTRON RADIATION  
 ELECTRONS  
 ELEMENTARY PARTICLES  
 ETA-MESONS  
 FAST NEUTRONS  
 FERMIONS  
 FERRIC ION  
 FINES  
 FLAKES  
 FOG  
 FREE ELECTRONS  
 HADRONS  
 HIGH ENERGY ELECTRONS  
 HOT ELECTRONS  
 HYPERONS  
 INNER RADIATION BELT  
 ION CYCLOTRON RADIATION  
 KAONS  
 LEPTONS  
 MAGNETICALLY TRAPPED PARTICLES  
 MANGANESE IONS  
 MESON RESONANCES  
 MESONS  
 METAL IONS  
 METAL PARTICLES  
 MICROPARTICLES  
 MIST  
 N ELECTRONS  
 NEGATONS  
 NEUTRAL PARTICLES  
 NEUTRINOS  
 NEUTRONS  
 NUCLEAR PARTICLES  
 NUCLEONS  
 OUTER RADIATION BELT  
 PHOTOELECTRONS  
 PHOTONEUTRONS  
 PHOTONS  
 PI-ELECTRONS  
 PIONS  
 PLATINUM BLACK  
 POLLARONS  
 POLLEN  
 POSITRONS  
 POWDER (PARTICLES)  
 POWDERED ALUMINUM  
 PRIMARY COSMIC RAYS  
 PROTON BELTS  
 PROTONS  
 QUARKS  
 RADIATION BELTS  
 RAINDROPS  
 RECOIL PROTONS  
 RELATIVISTIC PARTICLES  
 SOLAR CORPUSCULAR RADIATION  
 SOLAR COSMIC RAYS  
 SOLAR PROTONS

SOOT  
 STELLAR WINDS  
 TACHYONS  
 THERMAL NEUTRONS  
 TRAPPED PARTICLES  
 TRITONS  
 VANADYL RADICAL  
 RT AIR POLLUTION  
 ARGON PLASMA  
 CESIUM PLASMA  
 #CLOUDS  
 COLD PLASMAS  
 COLLISIONLESS PLASMAS  
 COLLOIDS  
 COSMIC PLASMA  
 DEUTERIUM PLASMA  
 DEUTERON IRRADIATION  
 DIRT  
 DISPERSIONS  
 #DUST  
 GRANULAR MATERIALS  
 GRIT  
 HELIUM PLASMA  
 HIGH TEMPERATURE PLASMAS  
 HYDROGEN PLASMA  
 METAL POWDER  
 METALLIC PLASMAS  
 NEUTRAL BEAMS  
 NEUTRON BEAMS  
 NODULES  
 NONEQUILIBRIUM PLASMAS  
 NONUNIFORM PLASMAS  
 PARTICLE PRODUCTION  
 PARTICLE SIZE DISTRIBUTION  
 PLASMA CLOUDS  
 #PLASMAS (PHYSICS)  
 POSITRON ANNIHILATION  
 PRECIPITATION PARTICLE MEASUREMENT  
 PROTON PRECIPITATION  
 RAREFIED PLASMAS  
 RELATIVISTIC PLASMAS  
 ROTATING PLASMAS  
 SMOKE  
 THERMAL PLASMAS  
 TOROIDAL PLASMAS  
 PARTICULATE FILTERS  
 USE FLUID FILTERS  
 PARTICULATE SAMPLING  
 0601 0602 0603  
 BT SAMPLING  
 RT ASSAYING  
 CHEMICAL ANALYSIS  
 CONCENTRATION (COMPOSITION)  
 IDENTIFYING  
 PARTITIONS  
 0202 1504 1902 2311 2806 3203 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CURTAINS  
 PARTITIONS (MATHEMATICS)  
 PARTITIONS (STRUCTURES)  
 SEPTUM  
 PARTITIONS (MATHEMATICS)  
 1902  
 BT COMBINATORIAL ANALYSIS  
 RT COMBINATIONS (MATHEMATICS)  
 EQUIVALENCE  
 PARTITIONS  
 PERMUTATIONS  
 PARTITIONS (STRUCTURES)  
 3202  
 RT BULKHEADS  
 CURTAINS  
 PARTITIONS  
 THIN WALLS  
 WALLS  
 PARTS  
 USE COMPONENTS  
 PAS  
 3107  
 UP PERIGEE-APOGEE SATELLITES  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT ELLIPTICAL ORBITS  
 TWENTY-FOUR HOUR ORBITS  
 PASCHEN SERIES  
 1411 2401 2402  
 BT ELECTROMAGNETIC SPECTRA  
 H LINES  
 LINE SPECTRA

## PASSENGER AIRCRAFT

RADIATION SPECTRA  
 #SPECTRA  
 RT ABSORPTION SPECTRA  
 ATOMIC SPECTRA  
 ELECTRON TRANSITIONS  
 EMISSION SPECTRA  
 HYDROGEN  
 PASSAGEWAYS  
 1101 1102 1105 1106 1504 3203  
 NT TRANSFER TUNNELS  
 RT APPROACH  
 CAVITIES  
 CORRIDORS  
 GAPS  
 NOTCHES  
 #OPENINGS  
 PATHS  
 ROADS  
 TUNNELS  
 VESTIBULES  
 PASSBANDS  
 USE BANDPASS FILTERS  
 BANDWIDTH  
 PASSENGER AIRCRAFT  
 0201 0204 0205  
 UP AIRLINERS  
 EXECUTIVE AIRCRAFT  
 NT A-300 AIRCRAFT  
 AW 650 AIRCRAFT  
 BAC 111 AIRCRAFT  
 BOEING 707 AIRCRAFT  
 BOEING 720 AIRCRAFT  
 BOEING 727 AIRCRAFT  
 BOEING 737 AIRCRAFT  
 BOEING 747 AIRCRAFT  
 BOEING 767 AIRCRAFT  
 BOLKOW 207 AIRCRAFT  
 BREGUET 941 AIRCRAFT  
 BREGUET 942 AIRCRAFT  
 C-33 AIRCRAFT  
 C-35 AIRCRAFT  
 C-46 AIRCRAFT  
 CESSNA 172 AIRCRAFT  
 CESSNA 205 AIRCRAFT  
 CESSNA 210 AIRCRAFT  
 CESSNA 336 AIRCRAFT  
 CH-3 HELICOPTER  
 CH-46 HELICOPTER  
 CH-47 HELICOPTER  
 CH-54 HELICOPTER  
 CORNET 4 AIRCRAFT  
 CONVAIR 880 AIRCRAFT  
 CV-340 AIRCRAFT  
 CV-440 AIRCRAFT  
 CV-880 AIRCRAFT  
 CV-990 AIRCRAFT  
 DC 8 AIRCRAFT  
 DC 10 AIRCRAFT  
 DH 121 AIRCRAFT  
 DH 125 AIRCRAFT  
 DO-27 AIRCRAFT  
 DO-28 AIRCRAFT  
 ELECTRA AIRCRAFT  
 EUROPEAN AIRBUS  
 F-27 AIRCRAFT  
 F-28 HELICOPTER  
 F-28 TRANSPORT AIRCRAFT  
 FIAT 7002 HELICOPTER  
 G-1 AIRCRAFT  
 G-222 AIRCRAFT  
 GY-80 AIRCRAFT  
 H-53 HELICOPTER  
 H-56 HELICOPTER  
 HE-211 AIRCRAFT  
 HFB-320 AIRCRAFT  
 HS-748 AIRCRAFT  
 IL-62 AIRCRAFT  
 JETSTREAM AIRCRAFT  
 L-1011 AIRCRAFT  
 L-1649 AIRCRAFT  
 MYSTERE 20 AIRCRAFT  
 OH-5 HELICOPTER  
 P-166 AIRCRAFT  
 POTEZ 840 AIRCRAFT  
 SAAB 91 AIRCRAFT  
 SE-210 AIRCRAFT  
 SIAT 311 AIRCRAFT  
 TU-104 AIRCRAFT  
 TU-134 AIRCRAFT  
 TU-144 AIRCRAFT  
 VA-3 GROUND EFFECT MACHINE  
 VC-10 AIRCRAFT

## PASSENGERS

VISCOUNT AIRCRAFT  
 YAK 40 AIRCRAFT  
 YS-11 AIRCRAFT  
 RT AIRCRAFT  
 AN-22 AIRCRAFT  
 AN-24 AIRCRAFT  
 CARGO AIRCRAFT  
 #COMMERCIAL AIRCRAFT  
 DC 7 AIRCRAFT  
 DINFIA PA AIRCRAFT  
 E-2 AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 GROUND EFFECT MACHINES  
 HC-3 HELICOPTER  
 #JET AIRCRAFT  
 LIGHT AIRCRAFT  
 LOW WING AIRCRAFT  
 M-218 AIRCRAFT  
 MAP MATCHING GUIDANCE  
 MH-260 AIRCRAFT  
 MH-262 AIRCRAFT  
 MILITARY AIRCRAFT  
 N-2501 AIRCRAFT  
 P-531 HELICOPTER  
 PD-808 AIRCRAFT  
 ROTARY WING AIRCRAFT  
 SA-3210 HELICOPTER  
 SAAB 105 AIRCRAFT  
 SC-7 AIRCRAFT  
 SHORT HAUL AIRCRAFT  
 SUBSONIC AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 SUPERSONIC TRANSPORTS  
 #TRANSPORT AIRCRAFT  
 TURBOFAN AIRCRAFT  
 TURBOPROP AIRCRAFT  
 #V-STOL AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT

## PASSENGERS

0203 0204 0502  
 RT AIRLINE OPERATIONS  
 PAYLOADS  
 RAPID TRANSIT SYSTEMS  
 #TRANSPORTATION

## PASSIVATION

USE PASSIVITY

## PASSIVE SATELLITES

0706 2102 3107  
 UP REFLECTOR SATELLITES  
 NT BEACON EXPLORER A  
 BEACON SATELLITES  
 ECHO 1 SATELLITE  
 ECHO 2 SATELLITE  
 ECHO SATELLITES  
 EXPLORER 22 SATELLITE  
 PAGEOS SATELLITE  
 BT ARTIFICIAL SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 RT ACTIVE SATELLITES  
 COMMUNICATION SATELLITES  
 EARTH SATELLITES  
 ECHO PROJECT  
 GEODETIC SATELLITES  
 NAVIGATION SATELLITES  
 SYNCHRONOUS SATELLITES

## PASSIVITY

0603 1703  
 UP PASSIVATION  
 RT ANODIZING  
 CHEMICAL ATTACK  
 #CHEMICAL PROPERTIES  
 #COATINGS  
 CORROSION  
 CORROSION PREVENTION  
 CORROSION RESISTANCE  
 DEACTIVATION  
 ELECTROLYSIS  
 INHIBITION  
 INHIBITORS  
 OXIDATION  
 OXIDATION RESISTANCE  
 RUSTING  
 SILICONIZING

## PASTES

0403 1805 3404  
 BT ADHESIVES  
 RT GLUES  
 PLASTERS

## PASTEURIZING

0505 0602 3404  
 BT #HEATING

RT PURIFICATION  
 STERILIZATION  
 PATCH TESTS  
 0405 0408  
 RT CONTACT DERMATITIS  
 HYDRAULIC FLUIDS  
 TESTS  
 TUBERCULOSIS  
 WEAR TESTS  
 WELD STRENGTH  
 PATCHING  
 USE MAINTENANCE  
 PATENT APPLICATIONS  
 3402 3403 3404  
 BT INVENTIONS  
 PATENTS  
 PRODUCT DEVELOPMENT  
 TECHNOLOGY UTILIZATION  
 PATENT POLICY  
 3401 3402 3403  
 BT POLICIES  
 RT INVENTIONS  
 PATENTS  
 PRODUCT DEVELOPMENT  
 REGULATIONS  
 #RULES  
 PATENTS  
 3402 3403 3404  
 RT CLAIMING  
 GRANTS  
 INVENTIONS  
 PATENT APPLICATIONS  
 PATENT POLICY  
 PATHFINDER NUCLEAR REACTOR  
 0905 2104  
 BT BOILING WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR ELECTRIC POWER GENERATION  
 NUCLEAR POWER REACTORS  
 #NUCLEAR REACTORS  
 WATER COOLED REACTORS  
 PATHOGENESIS  
 0405 0412  
 RT CHOLERA  
 #DISEASES  
 PATHOGENS  
 0405 0408 0411 0412  
 RT BACTERIA  
 CLOSTRIDIUM BOTULINUM  
 PATHOGENESIS  
 PATHOLOGICAL EFFECTS  
 0405 0408 0412  
 RT BIOLOGICAL EFFECTS  
 CARBON MONOXIDE POISONING  
 CHOLERA  
 #DISEASES  
 EFFECTS  
 PHYSIOLOGICAL RESPONSES  
 STRESS (BIOLOGY)  
 PATHOLOGY  
 0404 0405  
 NT HUMAN PATHOLOGY  
 BT #MEDICAL SCIENCE  
 RT AUTOPSIES  
 DIAGNOSIS  
 DISSECTION  
 HEMORRHAGES  
 RADIATION THERAPY  
 PATHS  
 0803 1001 1902 2101 2102 3006 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP COURSES  
 LANES  
 RT CRITICAL PATH METHOD  
 DIFFRACTION PATHS  
 FLIGHT PATHS  
 GROUND TRACKS  
 MEAN FREE PATH  
 METEOR TRAILS  
 MULTIPATH TRANSMISSION  
 NETWORK ANALYSIS  
 OPERATIONS RESEARCH  
 OPTICAL PATHS  
 #ORBITS  
 PARTICLE TRAJECTORIES  
 PASSAGEWAYS  
 PERT  
 ROUTES  
 SOUND TRANSMISSION

## NASA THESAURUS (ALPHABETICAL LISTING)

THERMODYNAMICS  
 #TRAJECTORIES  
 PATIENTS  
 0405 0410  
 RT HUMAN BEINGS  
 HUMAN PATHOLOGY  
 THERAPY  
 PATROLS  
 3401  
 RT RECONNAISSANCE  
 PATTERN DISTRIBUTION  
 USE #DISTRIBUTION (PROPERTY)  
 PATTERN RECOGNITION  
 0408 0503 0802  
 UP AUTOMATIC PATTERN RECOGNITION  
 RT CHARACTER RECOGNITION  
 GRAPHOLOGY  
 BT #RECOGNITION  
 RT CLUMPS  
 READERS  
 REPETITION  
 PATTERN REGISTRATION  
 1401 1406 1407 1412 2311  
 RT COMPARISON  
 IMAGE CONTRAST  
 IMAGE CORRELATORS  
 IMAGE MOTION COMPENSATION  
 IMAGING TECHNIQUES  
 MATCHING  
 PATTERN REGISTRATION  
 PATTERNS  
 1504 1902 3404 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DIFFRACTION PATTERNS  
 #DISTRIBUTION (PROPERTY)  
 MOLDS  
 PROTOTYPES  
 RADIATION DISTRIBUTION  
 #RESINS  
 SYNTHETIC ARRAYS  
 TEMPLATES  
 WIDMANSTATTEN STRUCTURE  
 PATTERSON MAP  
 0710 2402 2406  
 BT #CHARTS  
 GRAPHS (CHARTS)  
 RT #CRYSTAL LATTICES  
 CRYSTAL STRUCTURE  
 LATTICE PARAMETERS  
 PAULI EXCLUSION PRINCIPLE  
 2308 2401 2403  
 BT QUANTUM MECHANICS  
 WAVE FUNCTIONS  
 RT ATOMIC STRUCTURE  
 EXCLUSION  
 FERMIONS  
 PAVEMENTS  
 1101 1108 3202 3203  
 RT ASPHALT  
 #COATINGS  
 CONCRETES  
 FOUNDATIONS  
 HIGHWAYS  
 ROADS  
 RUNWAYS  
 STREETS  
 PAYLOAD MASS RATIO  
 3009 3110  
 BT MASS RATIOS  
 #RATIOS  
 RT MULTISTAGE ROCKET VEHICLES  
 PIGGYBACK SYSTEMS  
 PROPELLANT MASS RATIO  
 PAYLOADS  
 0201 0202 3009 3104 3110  
 RT AIRCRAFT PERFORMANCE  
 AIRCRAFT SPECIFICATIONS  
 APOLLO LUNAR SURFACE EXPERIMENTS  
 PACKAGE  
 BASEP  
 INSTRUMENT PACKAGES  
 LOADING  
 #LOADS (FORCES)  
 PASSENGERS  
 PIGGYBACK SYSTEMS  
 SPACE TRANSPORTATION  
 SPACE TUGS  
 WARHEADS  
 WEIGHT  
 WEIGHT (MASS)



# NASA THESAURUS (ALPHABETICAL LISTING)

**PBRE (REACTORS)**  
 USE PEBBLE BED REACTORS  
**PCM (MODULATION)**  
 USE PULSE CODE MODULATION  
**PCM TELEMETRY**  
 0702 0708  
 BT #SIGNAL TRANSMISSION  
 TELEMETRY  
 RT PULSE CODE MODULATORS  
**PD-808 AIRCRAFT**  
 0207  
 UP DOUGLAS PD-808 AIRCRAFT  
 PIAGGIO-DOUGLAS PD-808 AIRCRAFT  
 BT DOUGLAS AIRCRAFT  
 #JET AIRCRAFT  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PIAGGIO AIRCRAFT  
 UTILITY AIRCRAFT  
 RT PASSENGER AIRCRAFT  
**PDM (MODULATION)**  
 USE PULSE DURATION MODULATION  
**PDP 7 COMPUTER**  
 0801 0802  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 PDP COMPUTERS  
 PDP 8 COMPUTER  
 PDP 10 COMPUTER  
**PDP 8 COMPUTER**  
 0801 0802  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 PDP COMPUTERS  
 PDP 7 COMPUTER  
 PDP 8 COMPUTER  
 PDP 9 COMPUTER  
 PDP 10 COMPUTER  
**PDP 10 COMPUTER**  
 0801 0802  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 PDP COMPUTERS  
 PDP 7 COMPUTER  
 PDP 8 COMPUTER  
 PDP 9 COMPUTER  
 PDP 10 COMPUTER  
**PDP COMPUTERS**  
 0801 0802  
 NT PDP 7 COMPUTER  
 PDP 8 COMPUTER  
 PDP 9 COMPUTER  
 PDP 10 COMPUTER  
 BT COMPUTERS  
 DIGITAL COMPUTERS  
**PEACETIME**  
 3401 3403  
 RT HISTORIES  
 INTERNATIONAL COOPERATION  
 INTERNATIONAL LAW  
 WARFARE  
**PEAKS**  
 0404 1002 1305 1902 2311 2603  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT APEXES  
 EXTREMUM VALUES  
 MAXIMA  
 MOUNTAINS  
 PLATEAUS  
**PEARLITE**  
 1701 1704  
 RT CEMENTITE  
 FERRITES  
 IRON ALLOYS  
 MICROSTRUCTURE  
 STEELS  
**PEARSON DISTRIBUTIONS**  
 1902 1905  
 BT #FUNCTIONS (MATHEMATICS)  
 PROBABILITY DENSITY FUNCTIONS  
 #STATISTICAL ANALYSIS  
 STATISTICAL DISTRIBUTIONS  
**PEBBLE BED REACTORS**  
 2202 2203 2204  
 UP PBRE (REACTORS)  
 BT #NUCLEAR REACTORS  
 RT REACTOR DESIGN  
 REACTOR TECHNOLOGY

**PECLET NUMBER**  
 1202 3302 3304  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT ADVECTION  
 HEAT TRANSFER  
 PRANDTL NUMBER  
 REYNOLDS NUMBER  
 THERMAL DIFFUSION  
**PEDALS**  
 0506 1504  
 RT LEVERS  
 MANUAL CONTROL  
**PEDOLOGY**  
 USE SOIL SCIENCE  
**PEELING**  
 1504 3407  
 RT ADHESION  
 CUTTING  
 DELAMINATING  
 FLAKING  
 #MECHANICAL PROPERTIES  
 SHEDDING  
 STRIPPING  
**PEENING**  
 1504  
 NT SHOT PEENING  
 BT #METAL FINISHING  
 RT COLD WORKING  
 #HARDENING (MATERIALS)  
 #METAL WORKING  
 WORK HARDENING  
**PEGASUS COMPUTER**  
 0801  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
**PEGASUS ENGINE**  
 USE BRISTOL-SIDDELEY BS 53 ENGINE  
**PEGASUS SATELLITES**  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT SATURN PROJECT  
**PELAGIC ZONE**  
 1305  
 BT #REGIONS  
 RT OCEANOGRAPHY  
**PELLETS**  
 0505 0603 1502 1504 1704 1805 3203  
 RT BRIQUETS  
 FUEL CAPSULES  
 GRANULAR MATERIALS  
 NUCLEAR FUELS  
 SHOT  
**PELLICLE**  
 0404 0405  
 RT THIN FILMS  
**PELOMYIA**  
 0402  
 BT AMOEBA  
 #ANIMALS  
 INVERTEBRATES  
 #MICROORGANISMS  
 PROTOZOA  
**PELTIER EFFECTS**  
 1002 3303 3304  
 RT EFFECTS  
 SEEBECK EFFECT  
 TEMPERATURE EFFECTS  
 THERMOCOUPLES  
 THERMOELECTRIC COOLING  
 THERMOELECTRICITY  
 THERMOPHYSICAL PROPERTIES  
**PELVIS**  
 0402 0404  
 BT #ANATOMY  
 BONES  
 MUSCULOSKELETAL SYSTEM  
 RT GIRDLES  
**PENALTIES**  
 3403  
 BT #LAW (JURISPRUDENCE)  
 RT DISCIPLINING  
 JUDGMENTS  
 LEGAL LIABILITY  
 LIABILITIES  
 PROHIBITION  
 REGULATIONS  
**PENDULOUS GYROSCOPES**  
 USE GYROSCOPIC PENDULUMS

# PENTANES

**PENDULUMS**  
 1403 1504 2308  
 NT GYROSCOPIC PENDULUMS  
 BT MECHANICAL OSCILLATORS  
 #OSCILLATORS  
 RT ACCELEROMETERS  
 GRAVITATION  
 MOMENTUM  
 #OSCILLATIONS  
 TIMING DEVICES  
**PENETRANTS**  
 3201  
 RT AGENTS  
 PRESERVATIVES  
 RETARDANTS  
**PENETRATING PARTICLES**  
 USE CORPUSCULAR RADIATION  
**PENETRATION**  
 3401 3407  
 RT #DIFFUSION  
 DRILLING  
 FRAGMENTATION  
 IMPACT  
 PERCOLATION  
 PERFORATING  
 PERMEABILITY  
 PERMEATING  
 PIERCING  
 SATURATION  
 SEEPAGE  
 TERMINAL BALLISTICS  
 VULNERABILITY  
**PENETRATION BALLISTICS**  
 USE TERMINAL BALLISTICS  
**PENETROMETERS**  
 1406 2402  
 BT #MEASURING INSTRUMENTS  
 RT LUNAR SOIL  
**PENICILLIN**  
 0403 0405 1808  
 BT ANTIBIOTICS  
 #DRUGS  
 #STERIODS  
**PENNING DISCHARGE**  
 2402 2502  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT ELECTRODELESS DISCHARGES  
 GAS IONIZATION  
 ION MOTION  
 PENNING GAGES  
 #PLASMA GENERATORS  
**PENNING EFFECT**  
 2402 2502  
 RT GAS IONIZATION  
 METASTABLE ATOMS  
**PENNING GAGES**  
 1406 2402 2502  
 BT IONIZATION GAGES  
 #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 #VACUUM APPARATUS  
 VACUUM GAGES  
 RT PENNING DISCHARGE  
**PENNSYLVANIA**  
 1305  
 BT UNITED STATES OF AMERICA  
**PENS**  
 1103 1502  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP STYLUSES  
 RT ENCLOSURES  
 #RECORDING INSTRUMENTS  
**PENTABORANES**  
 1808  
 BT BORANES  
 #BORON COMPOUNDS  
 BORON HYDRIDES  
 HYDRIDES  
 #HYDROGEN COMPOUNDS  
**PENTACHLORIDES**  
 USE CHLORIDES  
**PENTAERYTHRITOL TETRANITRATE**  
 USE PETN  
**PENTAERYTHRILAMINE**  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #AMINES  
**PENTANES**  
 1808

# PENTANONE

BT NEOPENTANE  
 BT #ALIPHATIC COMPOUNDS  
 ALKANES  
 #HYDROCARBONS  
 PENTANONE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 KETONES  
 #ORGANIC COMPOUNDS  
 BT ACETONES  
 ACETYLACETONE  
 PENTOBARBITAL  
 0403 0405 1808  
 BT #DRUGS  
 NARCOTICS  
 SEDATIVES  
 PENTOBARBITAL SODIUM  
 0603 1808  
 NT RESERPINE  
 BT #DRUGS  
 BT NENBUTAL (TRADEMARK)  
 PENTODES  
 0903 0905  
 BT #ELECTRON TUBES  
 SEMICONDUCTOR DEVICES  
 TETRODES  
 TRANSISTORS  
 VACUUM TUBES  
 PENTOLITE  
 1808 3302  
 BT EXPLOSIVES  
 #PROPELLANTS  
 PERTOSE  
 1808  
 NT RIBOSE  
 XYLOSE  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 SUGARS  
 PENUMBRA  
 1902 2306 2310 3001  
 BT SHADOWS  
 BT ECLIPSES  
 UMBRAS  
 PEPPERS  
 0409 0505  
 BT FOOD  
 PEPSIN  
 0403 1808  
 BT ENZYMES  
 BT PAPAINE  
 PEPTIDES  
 0403 0404 1808  
 NT HYPERTENSIN  
 BT #PROTEINS  
 BT ASPARTIC ACID  
 PERCENTAGE  
 USE #RATIOS  
 #PERCEPTION  
 0404 0408 0503 1409 3407 3408  
 UP SENSATIONS  
 NT AUDITORY PERCEPTION  
 AUTOKINESIS  
 CONSCIOUSNESS  
 CRITICAL FLICKER FUSION  
 EXTRASENSORY PERCEPTION  
 KINESTHESIA  
 OLFACTORY PERCEPTION  
 PAIN SENSITIVITY  
 PROPRIOCEPTION  
 SENSORY PERCEPTION  
 SPACE PERCEPTION  
 TACTILE DISCRIMINATION  
 TASTE  
 VERTICAL PERCEPTION  
 VIBRATION PERCEPTION  
 VISUAL DISCRIMINATION  
 VISUAL PERCEPTION  
 BT #ACUITY  
 #ADAPTATION  
 ARTIFICIAL INTELLIGENCE  
 CHARACTER RECOGNITION  
 COGNITION  
 COLOR  
 CONTRAST  
 FREQUENCY RESPONSE  
 IDENTIFYING  
 ILLUSIONS  
 IMAGES  
 INTERPRETATION  
 #KNOWLEDGE  
 LEGIBILITY

MONOCULAR VISION  
 PERCEPTUAL TIME CONSTANT  
 READING  
 #RESOLUTION  
 RETINAL ADAPTATION  
 #SENSITIVITY  
 SENSORY DEPRIVATION  
 SENSORY FEEDBACK  
 SYMBOLS  
 THRESHOLDS (PERCEPTION)  
 TOUCH  
 VISIBILITY  
 VISION  
 PERCEPTORS  
 USE SELF ORGANIZING SYSTEMS  
 PERCEPTUAL SPEED  
 USE PERCEPTUAL TIME CONSTANT  
 PERCEPTUAL TIME CONSTANT  
 0405 0408  
 UP PERCEPTUAL SPEED  
 BT #CONSTANTS  
 TIME CONSTANT  
 BT #PERCEPTION  
 REACTION TIME  
 SENSE ORGANS  
 #SENSORY MOTOR PERFORMANCE  
 VELOCITY  
 PERCHLORATES  
 0603 1704 1804 1805  
 NT ALUMINUM PERCHLORATES  
 AMMONIUM PERCHLORATES  
 HYDRAZINE PERCHLORATES  
 HYDROGEN PERCHLORATE  
 HYDROXYLAMMONIUM PERCHLORATES  
 LITHIUM PERCHLORATES  
 MAGNESIUM PERCHLORATES  
 NITRONIUM PERCHLORATE  
 POTASSIUM PERCHLORATES  
 BT CHLORINE COMPOUNDS  
 #HALOGEN COMPOUNDS  
 BT CHLORATES  
 PERCHLORIC ACID  
 PERCHLORIC ACID  
 0405 0408 0603 1804  
 BT #ACIDS  
 RT PERCHLORATES  
 PERCHLORYL FLUORIDES  
 0603 1804  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 PERCOLATION  
 0602 3303  
 RT BEDS (PROCESS ENGINEERING)  
 CONCENTRATING  
 #DIFFUSION  
 EXTRACTION  
 FILTRATION  
 INTERSTICES  
 LEACHING  
 PENETRATION  
 PERMEABILITY  
 PERMEATING  
 SEEPAGE  
 SEPARATION  
 VOIDS  
 PERCUS METHOD  
 1902  
 RT FLOW EQUATIONS  
 INTEGRAL EQUATIONS  
 METHODOLOGY  
 PERCUSSION  
 2301  
 RT DETONATION  
 IMPACT  
 PHYSICAL EXAMINATIONS  
 PRIMERS (EXPLOSIVES)  
 PERFECT GAS  
 USE IDEAL GAS  
 PERFLUORO COMPOUNDS  
 1808  
 NT PERFLUOROALKANE  
 PERFLUOROGUANIDINE  
 SODIUM PERFLUOROBUTOXIDE  
 PERFLUOROALKANE  
 0603 1808  
 BT DIPLUORO COMPOUNDS  
 #FLUORINE COMPOUNDS  
 FLUORINE ORGANIC COMPOUNDS  
 FLUORO COMPOUNDS  
 #HALOGEN COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

#ORGANIC COMPOUNDS  
 PERFLUORO COMPOUNDS  
 PERFLUOROGUANIDINE  
 0403 0603 1808  
 BT #FLUORINE COMPOUNDS  
 FLUORINE ORGANIC COMPOUNDS  
 FLUORO COMPOUNDS  
 #HALOGEN COMPOUNDS  
 #ORGANIC COMPOUNDS  
 PERFLUORO COMPOUNDS  
 RT GUANIDINES  
 PERFORATED PLATES  
 2806 3203  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT ANISOTROPIC PLATES  
 CAVITIES  
 #OPENINGS  
 PERFORATION  
 STRESS CONCENTRATION  
 PERFORATED SHELLS  
 1504 2311 2401 3202 3203  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT ARCHES  
 CAVITIES  
 ENCLOSURES  
 PAIRINGS  
 HOLE DISTRIBUTION (MECHANICS)  
 HOUSINGS  
 HULLS (STRUCTURES)  
 MEMBRANE STRUCTURES  
 NACELLES  
 PERFORATION  
 PRESSURE VESSEL DESIGN  
 ROCKET ENGINE CASES  
 SHELL THEORY  
 STRESS CONCENTRATION  
 PERFORATING  
 1502 1504  
 RT BURNTHROUGH (FAILURE)  
 CUTTING  
 DRILLING  
 FORMATIONS  
 FRACTURING  
 GAS INJECTION  
 #INJECTION  
 METAL CUTTING  
 #METAL WORKING  
 PENETRATION  
 PERFORATION  
 PIERCING  
 WATER INJECTION  
 PERFORATION  
 0101 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CAVITIES  
 PERFORATED PLATES  
 PERFORATED SHELLS  
 PERFORATING  
 PIERCING  
 PERFORMANCE  
 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP IMPLEMENTATION  
 PERFORMANCE CHARACTERISTICS  
 PERFORMANCE DECREMENT  
 RT AIRCRAFT PERFORMANCE  
 COMFORT  
 COMPLEXITY  
 CONSISTENCY  
 #EFFICIENCY  
 EFFORT  
 #ENVIRONMENTS  
 EVALUATION  
 EXAMINATION  
 FATIGUE (BIOLOGY)  
 FIGURE OF MERIT  
 FLIGHT CHARACTERISTICS  
 HUMAN FACTORS ENGINEERING  
 #HUMAN PERFORMANCE  
 LONG TERM EFFECTS  
 MENTAL PERFORMANCE  
 OBSERVATION  
 OPERATOR PERFORMANCE  
 OUTPUT  
 PERFORMANCE TESTS  
 PILOT PERFORMANCE  
 POSTFLIGHT ANALYSIS

# NASA THESAURUS (ALPHABETICAL LISTING)

PROPULSION SYSTEM PERFORMANCE  
 QUALITY  
 RATINGS  
 RELIABILITY  
 SPACECRAFT PERFORMANCE  
 STANDARDS  
 TASK COMPLEXITY  
 PERFORMANCE CHARACTERISTICS  
 USE PERFORMANCE  
 PERFORMANCE DECREMENT  
 USE PERFORMANCE  
 PERFORMANCE PREDICTION  
 1505 1905 3406  
 NT PREDICTION ANALYSIS TECHNIQUES  
 BT #FORECASTING  
 #PREDICTIONS  
 RT EVALUATION  
 #MANAGEMENT  
 RELIABILITY  
 RELIABILITY ANALYSIS  
 RELIABILITY ENGINEERING  
 PERFORMANCE TESTS  
 3404  
 (APPLY ONLY TO OPERATING EQUIPMENT)  
 UP PROPICIENCY MEASUREMENT  
 RT ACCELERATED LIFE TESTS  
 ACCEPTABILITY  
 CERTIFICATION  
 CHECKOUT  
 INSPECTION  
 PERFORMANCE  
 SPECIFICATIONS  
 STANDARDS  
 TESTS  
 PERPUSION  
 USE #DIFFUSION  
 PERICLASE  
 1806 2601  
 BT AALKALINE EARTH OXIDES  
 #CHALCOGENIDES  
 #MAGNESIUM COMPOUNDS  
 MAGNESIUM OXIDES  
 METAL OXIDES  
 OXIDES  
 PERIDOTITE  
 1806 2601  
 UP KIMBERLITE  
 NT ENSTATITE  
 OLIVINE  
 PYROXENES  
 SERPENTINE  
 BT IGNEOUS ROCKS  
 ROCKS  
 RT CHROMITES  
 DUNITE  
 PERIGEE-APOGEE SATELLITES  
 USE PAS  
 PERIGEE  
 1901 1904 3006 3009  
 BT APSIDES  
 EARTH ORBITS  
 ELLIPTICAL ORBITS  
 #ORBITS  
 RT APOGEE  
 PERILUNES  
 PERIHILIONS  
 1901 1904 3001 3002  
 (PERIASTRONS IN THE SOLAR SYSTEM)  
 BT APSIDES  
 ELLIPTICAL ORBITS  
 #ORBITS  
 SOLAR ORBITS  
 RT APHELIONS  
 PERILUNES  
 1904 2102 3004 3006  
 BT APSIDES  
 RT LUNAR ORBITS  
 LUNAR SATELLITES  
 PERIGEE  
 PERIOD EQUATIONS  
 USE PERIODIC FUNCTIONS  
 PERIODIC FUNCTIONS  
 1902  
 UP PERIOD EQUATIONS  
 NT COSINE SERIES  
 SINE SERIES  
 TANGENTS  
 TRIGONOMETRIC FUNCTIONS  
 BT #ANALYSIS (MATHEMATICS)  
 #FUNCTIONS (MATHEMATICS)  
 REAL VARIABLES  
 TRANSCENDENTAL FUNCTIONS

RT FLOQUET THEOREM  
 FOURIER ANALYSIS  
 PERIODIC ORBITS  
 USE #ORBITS  
 PERIODIC OSCILLATIONS  
 USE #OSCILLATIONS  
 PERIODIC PROCESSES  
 USE #CYCLES  
 PERIODIC VARIATIONS  
 1902 2001  
 UP PERIODICITY  
 NT ALTERNATIONS  
 ANNUAL VARIATIONS  
 DIURNAL VARIATIONS  
 NOCTURNAL VARIATIONS  
 BT #VARIATIONS  
 RT AUTOCORRELATION  
 CLIMATOLOGY  
 #CYCLES  
 EXTRAPOLATION  
 FOURIER ANALYSIS  
 LONG TERM EFFECTS  
 #OSCILLATIONS  
 #OSCILLATORS  
 RHYTHM  
 TRENDS  
 VARIABILITY  
 VARIABLE STARS  
 PERIODICALS  
 3405  
 UP JOURNALS (DOCUMENTS)  
 BT #DOCUMENTS  
 RT JOURNALS  
 RECORDS  
 PERIODICITY  
 USE PERIODIC VARIATIONS  
 PERIODICITY (BIOLOGY)  
 USE RHYTHM (BIOLOGY)  
 PERIPHERAL CIRCULATION  
 0402 0404 0405  
 BT #CIRCULATION  
 PERIPHERAL JET FLOW  
 0101 1202 2806  
 BT #FLUID FLOW  
 JET FLOW  
 RT DOWNWASH  
 GROUND EFFECT  
 GROUND EFFECT MACHINES  
 LIFT AUGMENTATION  
 PERIPHERAL NERVOUS SYSTEM  
 0404 0408  
 BT #NERVOUS SYSTEM  
 RT NEUROMUSCULAR TRANSMISSION  
 PERIPHERIES  
 USE #BOUNDARIES  
 PERISCOPES  
 2310  
 BT #OPTICAL EQUIPMENT  
 RT BINOCULARS  
 EYEPIECES  
 OPTICAL MEASURING INSTRUMENTS  
 #TELESCOPES  
 VIEWING  
 PERITONEUM  
 0404 0405  
 BT TISSUES (BIOLOGY)  
 RT ABDOMEN  
 #MEMBRANES  
 PERMAPROST  
 1305 1306  
 BT #SOILS  
 RT POLAR REGIONS  
 PERMALLOYS (TRADEMARK)  
 1701 1704 2307  
 BT #ALLOYS  
 FERROMAGNETIC MATERIALS  
 #MAGNETIC MATERIALS  
 RT IRON ALLOYS  
 #MAGNETS  
 HOLYBDENUM ALLOYS  
 NICKEL ALLOYS  
 PERMANGANATES  
 0603 1804  
 NT SODIUM PERMANGANATES  
 BT #MANGANESE COMPOUNDS  
 RT MANGANESE IONS  
 PERMEABILITY  
 0406 0603 1203 1802 3408  
 (EXCLUDES MAGNETIC PERMEABILITY)  
 UP IMPERMEABILITY  
 NT DIELECTRIC PERMEABILITY  
 RT DENSITY (MASS/VOLUME)

# PERSONALITY TESTS

#DIFFUSION  
 DIFFUSIVITY  
 DRAINAGE  
 FORMATIONS  
 INFILTRATION  
 INTERSTICES  
 LEACHING  
 LEAKAGE  
 #MECHANICAL PROPERTIES  
 PENETRATION  
 PERCOLATION  
 PERMEATING  
 PHYSICAL PROPERTIES  
 POROSITY  
 RESISTANCE  
 SEEPAGE  
 #SURFACE PROPERTIES  
 VOID RATIO  
 VOIDS  
 WETTABILITY  
 PERMEATING  
 0406 0602 1203 2306  
 RT ABSORPTION  
 DESORPTION  
 DIALYSIS  
 #DIFFUSION  
 DISPERSING  
 IMPREGNATING  
 OSMOSIS  
 PENETRATION  
 PERCOLATION  
 PERMEABILITY  
 POROSITY  
 SATURATION  
 #SORPTION  
 TRANSPIRATION  
 PERMISSIVITY  
 3408  
 RT COMPATIBILITY  
 PSYCHOLOGICAL FACTORS  
 PERMITTIVITY  
 0904 1801 1805 2304  
 BT DIELECTRIC PROPERTIES  
 #ELECTRICAL PROPERTIES  
 RT ELECTRIC FIELDS  
 FIELD STRENGTH  
 PERMUTATIONS  
 1902 1905  
 BT COMBINATORIAL ANALYSIS  
 RT COMBINATIONS (MATHEMATICS)  
 PARTITIONS (MATHEMATICS)  
 SET THEORY  
 PEROVSKITES  
 1806  
 BT #CALCIUM COMPOUNDS  
 #MINERALS  
 TITANATES  
 #TITANIUM COMPOUNDS  
 PEROXIDES  
 0603 1804  
 NT HYDROGEN PEROXIDE  
 INORGANIC PEROXIDES  
 POTASSIUM PEROXIDES  
 SODIUM PEROXIDES  
 BT ANHYDRIDES  
 #CHALCOGENIDES  
 OXIDES  
 RT DIOXIDES  
 PERSEID METEOROIDS  
 3003 3005  
 BT #CELESTIAL BODIES  
 METEOROID SHOWERS  
 METEOROIDS  
 PERSHING MISSILE  
 3101 3404  
 BT BALLISTIC MISSILES  
 #MISSILES  
 SURFACE TO SURFACE MISSILES  
 RT MULTISTAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
 PERSONALITY  
 0408 0410  
 RT DEPERSONALIZATION  
 PERSONALITY TESTS  
 PERSONNEL SELECTION  
 PERSONALITY TESTS  
 0408 0410 0502  
 RT PERSONALITY  
 PSYCHOLOGICAL TESTS  
 PSYCHOMETRICS  
 QUALIFICATIONS  
 TESTS

# #PERSONNEL

## #PERSONNEL

3406 0502  
 BT AIRCRAFT PILOTS  
 ASTRONAUTS  
 COSMONAUTS  
 CREWS  
 ENEMY PERSONNEL  
 FLIGHT CREWS  
 FLIGHT SURGEONS  
 FLYING PERSONNEL  
 GROUND CREWS  
 INSTRUCTORS  
 MEDICAL PERSONNEL  
 NAVIGATORS  
 OPERATORS (PERSONNEL)  
 ORBITAL WORKERS  
 PHYSICIANS  
 PILOTS (PERSONNEL)  
 POLICE  
 PROGRAMMERS  
 SCIENTISTS  
 SPACECREWS  
 SURGEONS  
 TEST PILOTS  
 BT COMPLEMENT  
 CONSULTING  
 DEPERSONALIZATION  
 DEPLOYMENT  
 EMPLOYEE RELATIONS  
 ESTIMATORS  
 INCENTIVES  
 INHABITANTS  
 MANPOWER  
 OCCUPATION  
 ORGANIZING  
 PERSONNEL DEVELOPMENT  
 PERSONNEL MANAGEMENT  
 PERSONNEL SUBSYSTEMS  
 POSITION (TITLE)  
 QUALIFICATIONS  
 RESEARCH MANAGEMENT  
 #RESOURCES  
 RETIREMENT  
 SERVICES  
 UNIONIZATION  
 WAGE SURVEYS  
 PERSONNEL DEVELOPMENT  
 3406  
 BT #INDUSTRIAL MANAGEMENT  
 #MANAGEMENT  
 BT DEVELOPMENT  
 EMPLOYEE RELATIONS  
 #MANAGEMENT  
 MANAGEMENT PLANNING  
 #PERSONNEL  
 PERSONNEL DEVELOPMENT  
 PERSONNEL MANAGEMENT  
 PERSONNEL SELECTION  
 #RESOURCES  
 PERSONNEL PROPULSION SYSTEMS  
 USE SELF MANEUVERING UNITS  
 PERSONNEL SELECTION  
 0410 0502 3406  
 BT PILOT SELECTION  
 BT #SELECTION  
 BT APTITUDE  
 EMPLOYMENT  
 LABOR  
 PERSONALITY  
 PERSONNEL MANAGEMENT  
 PHYSICAL EXAMINATIONS  
 PHYSIOLOGICAL TESTS  
 PERSONNEL SUBSYSTEMS  
 0410 3406  
 BT #INDUSTRIES  
 #PERSONNEL  
 PERSPEX (TRADEMARK)  
 1808 1809 1810  
 BT #PLASTICS  
 PERSPIRATION  
 0404 0405 0505  
 UP SWEATING  
 BT #BODY FLUIDS  
 BODY TEMPERATURE  
 EVAPORATION  
 EXCRETION  
 FECES  
 HUMIDITY  
 PALMAR SWEAT INDEX  
 SKIN (ANATOMY)  
 SWEAT  
 TRANSPIRATION

## PERT

0802 3405 3406  
 BT COMMERCE  
 CONTRACT MANAGEMENT  
 CRITICAL PATH METHOD  
 GERT  
 MANAGEMENT ANALYSIS  
 MANAGEMENT METHODS  
 MANAGEMENT PLANNING  
 PATHS  
 PROGRAM TREND LINE ANALYSIS  
 PROJECT MANAGEMENT  
 #PERTURBATION  
 1902 2311 2602 3001 3407  
 BT ORBIT PERTURBATION  
 SATELLITE PERTURBATION  
 RT DISTURBANCES  
 FOUR BODY PROBLEM  
 GEODESY  
 LONG TERM EFFECTS  
 MANY BODY PROBLEM  
 NUTATION  
 ORBITAL MECHANICS  
 #OSCILLATIONS  
 #OSCILLATORS  
 PERTURBATION THEORY  
 RADIATION PRESSURE  
 THREE BODY PROBLEM  
 TWO BODY PROBLEM  
 #VARIATIONS  
 PERTURBATION THEORY  
 0802 1901 1902 2402 2602  
 UP DISTURBANCE THEORY  
 RT BOUSSINESQ APPROXIMATION  
 CELESTIAL MECHANICS  
 DISTURBING FUNCTIONS  
 HANSEN LUNAR THEORY  
 HARTREE APPROXIMATION  
 HILL LUNAR THEORY  
 HILL METHOD  
 MANY BODY PROBLEM  
 OPERATORS (MATHEMATICS)  
 ORBIT PERTURBATION  
 ORBITAL ELEMENTS  
 #PERTURBATION  
 QUANTUM THEORY  
 TAYLOR INSTABILITY  
 THEORIES  
 VON ZEIPPEL METHOD  
 WAVE FUNCTIONS  
 WENTZEL-KRAMER-BRILLOUIN METHOD

## PERU

1305

RT NATIONS

SOUTH AMERICA

## PERVANCE

1001 1002 2304

BT #RATIOS

RT CHILD-LANGMUIR LAW

SPACE CHARGE

THERMIONIC DIODES

VACUUM TUBES

WORK FUNCTIONS

## PETALS

0404 0409

BT #PLANTS (BOTANY)

## PETECHIA

0404 0405

BT HEMORRHAGES

RT SKIN (ANATOMY)

## PETH

1808 3302

UP PENTERYTHRITOL TETRANITRATE

BT #ESTERS

NITRATES

#NITROGEN COMPOUNDS

ORGANIC NITRATES

RT EXPLOSIVES

PETREL SOUNDING ROCKET

3009 3106 3108 3409

BT ROCKETS

SONDES

SOUNDING ROCKETS

RT ROCKETS

## PETROGRAPHY

1306 1806

BT #GEOLOGY

PETROLOGY

RT ROCKS

SEDIMENTARY ROCKS

## PETROLEUM

USE CRUDE OIL

# NASA THESAURUS (ALPHABETICAL LISTING)

## PETROLOGY

1306 1308  
 BT PETROGRAPHY  
 BT #GEOLOGY  
 RT FORMATIONS  
 GEOCHEMISTRY  
 GEOPHYSICS  
 MINERALOGY  
 ROCKS  
 STRATIGRAPHY  
 VOLCANOLOGY  
 PPAPP EQUATION  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 RT DIFFERENTIAL EQUATIONS  
 THERMODYNAMICS  
 PPM (MODULATION)  
 USE PULSE FREQUENCY MODULATION  
 PH  
 0602 0603 1804  
 RT ACID BASE EQUILIBRIUM  
 ACIDITY  
 BUFFERS (CHEMISTRY)  
 HYDROGEN IONS  
 PH FACTOR  
 0601 0603 1804  
 RT ACID BASE EQUILIBRIUM  
 HYDROGEN IONS  
 ION CONCENTRATION  
 PHANTON SPACE VEHICLE  
 3110  
 RT SPACECRAFT  
 PHANTASTRONS  
 0701 0905 1003 2402  
 BT #CIRCUITS  
 DELAY CIRCUITS  
 #OSCILLATORS  
 RELAXATION OSCILLATORS  
 RT FEEDBACK AMPLIFIERS  
 PHANTON AIRCRAFT  
 0207  
 RT F-4 AIRCRAFT  
 PHARMACOLOGY  
 0404 0405 0603  
 RT ANESTHESIOLOGY  
 #MEDICAL SCIENCE  
 MEDICINE  
 MOTION SICKNESS DRUGS  
 PHARYNX  
 0404 0405  
 BT #ANATOMY  
 BRONCHIAL TUBE  
 RESPIRATORY SYSTEM  
 PHASE ANGLE  
 USE PHASE SHIFT  
 PHASE CHANGES  
 USE #PHASE TRANSFORMATIONS  
 PHASE COHERENCE  
 1002 2304 2402  
 RT COHERENCE  
 COHERENCE COEFFICIENT  
 COHERENT LIGHT  
 WAVE FRONTS  
 PHASE CONTRAST  
 1002 2304 2402  
 BT CONTRAST  
 RT DIFFRACTION PATTERNS  
 MICROSCOPY  
 #OPTICAL MEASUREMENT  
 OPTICAL PATHS  
 PHASE CONTROL  
 1001 1002 2304 2402  
 RT CIRCUIT PROTECTION  
 CONTROL  
 PHASE DETECTORS  
 PHASE DEVIATION  
 PHASE LOCKED SYSTEMS  
 PHASE MODULATION  
 PHASE SHIFT  
 PHASED LOCKED SYSTEMS  
 TRANSFORMERS  
 PHASE DEMODULATORS  
 0902 0905 1001  
 BT DEMODULATORS  
 RT PHASE LOCK DEMODULATORS  
 PHASE MODULATION  
 PHASE DETECTORS  
 0902 0905 1002  
 BT SYNCHROSCOPES  
 BT #CIRCUITS  
 RT DETECTORS  
 PHASE CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

PHASE ERROR  
 PHASE LOCKED SYSTEMS  
 PHASED LOCKED SYSTEMS  
 SIGNAL DETECTION  
 SYNCHRONISM  
 PHASE DEVIATION  
 1002 2304 2402  
 RT MODULATED CONTINUOUS RADIATION  
 PHASE CONTROL  
 PHASE SHIFT  
 PHASE DIAGRAMS  
 1701  
 UP CONSTITUTIONAL DIAGRAMS  
 EQUILIBRIUM DIAGRAMS  
 EUTECTIC DIAGRAMS  
 BT DIAGRAMS  
 RT #ALLOYS  
 #BINARY SYSTEMS (MATERIALS)  
 CRITICAL TEMPERATURE  
 EUTECTICS  
 #HEAT TREATMENT  
 INTERMETALLICS  
 LIQUID PHASES  
 #LIQUIDS  
 LIQUIDUS  
 MELTING POINTS  
 PHASE RULE  
 #PHASE TRANSFORMATIONS  
 SOLID PHASES  
 SOLID SOLUTIONS  
 SOLID SUSPENSIONS  
 SOLUBILITY  
 STOICHIOMETRY  
 TRANSITION POINTS  
 TRANSITION TEMPERATURE  
 VAPOR PHASES  
 PHASE ERROR  
 2304 2402  
 BT ERRORS  
 RT CIRCUIT PROTECTION  
 ERROR SIGNALS  
 PHASE DETECTORS  
 PHASE SHIFT  
 PHASE FADING  
 USE #FADING  
 PHASE LOCK DEMODULATORS  
 0702 0905 1001  
 BT DEMODULATORS  
 RT CORRELATION DETECTION  
 PARAMETRICS  
 PHASE DEMODULATORS  
 PHASE LOCKED SYSTEMS  
 0902 1003 2402  
 RT FEEDBACK FREQUENCY MODULATION  
 OPTICAL COUPLING  
 PHASE CONTROL  
 PHASE DETECTORS  
 SYNCHRONIZED OSCILLATORS  
 SYSTEMS  
 TRACKING FILTERS  
 PHASE MODULATION  
 0702 2304 2402  
 NT FM/PM (MODULATION)  
 PHASE SHIFT KEYING  
 BT #MODULATION  
 RT AMPLITUDE MODULATION  
 DEMODULATION  
 DEMODULATORS  
 FREQUENCY MODULATION  
 MODULATORS  
 PARAMETRIC FREQUENCY CONVERTERS  
 PHASE CONTROL  
 PHASE DEMODULATORS  
 PULSE MODULATION  
 PUSH-PULL AMPLIFIERS  
 PHASE RULE  
 1902  
 BT #RULES  
 RT CHEMICAL EQUILIBRIUM  
 DEGREES OF FREEDOM  
 GIBBS EQUATIONS  
 PHASE DIAGRAMS  
 #PHASE TRANSFORMATIONS  
 PHASE SHIFT  
 1001 2304 2402  
 UP PHASE ANGLE  
 RT ANGLES (GEOMETRY)  
 MICROWAVE SWITCHING  
 PHASE CONTROL  
 PHASE DEVIATION  
 PHASE ERROR  
 PHASES

SHIFT  
 PHASE SHIFT CIRCUITS  
 0902  
 NT CIRCULATORS (PHASE SHIFT CIRCUITS)  
 BT #CIRCUITS  
 RT DELAY CIRCUITS  
 DUPLEX OPERATION  
 GYRATORS  
 PHASE SHIFT KEYING  
 0702 1001 2402  
 BT #MODULATION  
 PHASE MODULATION  
 RT INFORMATION THEORY  
 PHASE-SPACE INTEGRAL  
 1902 2308 2402  
 BT #ANALYSIS (MATHEMATICS)  
 RT #CLASSICAL MECHANICS  
 EUCLIDEAN GEOMETRY  
 HYPERSPACES  
 STATE VECTORS  
 PHASE SWITCHING INTERFEROMETERS  
 1001 1405 2402  
 BT INTERFEROMETERS  
 #MEASURING INSTRUMENTS  
 RT RADIO ASTRONOMY  
 RADIO TELESCOPES  
 #PHASE TRANSFORMATIONS  
 1701  
 UP PHASE CHANGES  
 NT ARC MELTING  
 BOILING  
 EVAPORATION  
 FILM BOILING  
 FLASHING (VAPORIZING)  
 FREEZING  
 FUSION (MELTING)  
 LEIDENFROST PHENOMENON  
 LIQUEFACTION  
 MELTING  
 NUCLEATE BOILING  
 PROPELLANT EVAPORATION  
 SUBLIMATION  
 TRANSPIRATION  
 VACUUM MELTING  
 VAPORIZING  
 VIBRATIONAL FREEZING  
 ZONE MELTING  
 RT COLD HARDENING  
 CONDENSING  
 CRITICAL TEMPERATURE  
 CRYSTALLIZATION  
 MARTENSITE  
 METAMORPHISM (GEOLOGY)  
 NEEL TEMPERATURE  
 ORDER-DISORDER TRANSFORMATIONS  
 PHASE DIAGRAMS  
 PHASE RULE  
 PHASES  
 SOLIDIFICATION  
 SOLIDS  
 TRANSFORMATIONS  
 TRANSITION  
 TRANSITION TEMPERATURE  
 PHASE VELOCITY  
 2304 2308 2402  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT #ELECTROMAGNETIC RADIATION  
 GROUP VELOCITY  
 LANDAU DAMPING  
 PROPAGATION VELOCITY  
 QUANTUM MECHANICS  
 TRAVELING WAVES  
 WAVE FRONTS  
 WAVE PROPAGATION  
 PHASED ARRAYS  
 0701 0901 1001  
 BT #ARRAYS  
 RT ANTENNA ARRAYS  
 LINEAR ARRAYS  
 MONOPULSE ANTENNAS  
 SEISMOGRAPHS  
 STEERABLE ANTENNAS  
 PHASED LOCKED SYSTEMS  
 0902 1003 2402  
 RT PHASE CONTROL  
 PHASE DETECTORS  
 PHASES  
 0710 1002 2306 2309 2312 3001 3006 3008  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

## PHOBAS

RT #CYCLES  
 LIQUID PHASES  
 LUNAR PHASES  
 PHASE SHIFT  
 #PHASE TRANSFORMATIONS  
 SOLID PHASES  
 TERMINATOR LINES  
 VAPOR PHASES  
 PHENACETIN  
 USE ACETANILIDE  
 PHENANTHRENE  
 0603 1808  
 RT ANTHRACENE  
 PHENOBARBITAL  
 0405 1808  
 RT #DRUGS  
 NARCOTICS  
 SEDATIVES  
 PHENOL FORMALDEHYDE  
 0603 1808  
 RT FORMALDEHYDE  
 PHENOLIC RESINS  
 0603 1808  
 RT MICARTA  
 BT #PLASTICS  
 #RESINS  
 SYNTHETIC RESINS  
 THERMOSETTING RESINS  
 PHENOLS  
 0603 1808  
 RT BISPHENOLS  
 CRESOLS  
 PHLOROGLUCINOL  
 THYROL  
 BT ALCOHOLS  
 #HYDROXYL COMPOUNDS  
 RT THIOLS  
 PHENOMENOLOGY  
 0410  
 BT MEDICAL PHENOMENA  
 #MEDICAL SCIENCE  
 RT CASE HISTORIES  
 SCIENCE  
 PHENOTHIAZINES  
 0603 1808  
 BT AZINES  
 #HETEROCYCLIC COMPOUNDS  
 INSECTICIDES  
 #POISONS  
 #PTRAZINES  
 PHENYLALANINE  
 0603 1808  
 BT #ACIDS  
 AMINO ACIDS  
 #ORGANIC COMPOUNDS  
 PHENYLS  
 0603 1808  
 RT POLYPHENYLS  
 TERPHENYLS  
 PHILCO 2000 COMPUTER  
 0801 0802  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 PHILIPS IONIZATION GAGES  
 0905 1406 1804 2307  
 BT IONIZATION GAGES  
 #MEASURING INSTRUMENTS  
 PRESSURE GAGES  
 #VACUUM APPARATUS  
 VACUUM GAGES  
 RT PRESSURE MEASUREMENTS  
 PHILLIPINES  
 1305  
 BT #ISLANDS  
 PACIFIC ISLANDS  
 PHILOSOPHY  
 0410 3402 3403  
 RT PARADOXES  
 BT #KNOWLEDGE  
 RT LITERATURE  
 LOGIC  
 #MATHEMATICAL LOGIC  
 PHLOROGLUCINOL  
 0601 1407 1808  
 BT ALCOHOLS  
 #HYDROXYL COMPOUNDS  
 PHENOLS  
 RT CHEMICAL INDICATORS  
 #RESINS  
 PHOBAS  
 0408 0410 0502

# PROBOS

BT FEAR OF FLYING  
 BT #ABNORMALITIES  
 RT ANXIETY  
 EMOTIONAL FACTORS  
 FEAR

PROBOS  
 3001 3006 3008  
 BT #CELESTIAL BODIES  
 NATURAL SATELLITES  
 #SATELLITES  
 RT MARS (PLANET)

PROBOS NUCLEAR REACTOR  
 2202 2203 2204  
 BT #NUCLEAR REACTORS  
 RT KIW REACTORS  
 NUCLEAR ENGINE FOR ROCKET VEHICLES  
 NUCLEAR ROCKET ENGINES

PROBOS SOUNDING ROCKET  
 3106  
 BT MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT SOLID PROPELLANT ROCKET ENGINES

PHONEMES  
 3405  
 BT #LINGUISTICS  
 #SPEECH  
 RT #LANGUAGES  
 PHONEMICS  
 PHONETICS  
 SPEECH RECOGNITION  
 WORDS (LANGUAGE)

PHONEMICS  
 3405  
 BT #LINGUISTICS  
 RT INTELLIGIBILITY  
 #LANGUAGES  
 PHONEMES  
 PHONETICS  
 #SPEECH  
 SPEECH DEFECTS  
 SPEECH RECOGNITION  
 WORDS (LANGUAGE)

PHONETICS  
 0410 3405  
 BT #SPEECH  
 RT ACOUSTICS  
 INTELLIGIBILITY  
 #LANGUAGES  
 PHONEMES  
 PHONETICS  
 SPEECH DEFECTS  
 SPEECH RECOGNITION  
 VERBAL COMMUNICATION  
 WORDS (LANGUAGE)

PHONOARTERIOGRAPHY  
 0405 0501  
 RT ARTERIES  
 BLOOD CIRCULATION  
 PHONOCARDIOGRAPHY

PHONOCARDIOGRAMS  
 USE PHONOCARDIOGRAPHY

PHONOCARDIOGRAPHY  
 0404 0405 0501  
 UP PHONOCARDIOGRAMS  
 VIBROCARDIOGRAPHY  
 RT BALLISTOCARDIOGRAPHY  
 ELECTROCARDIOGRAPHY  
 HEART  
 HEART DISEASES  
 PHONOARTERIOGRAPHY

PHONON BEAMS  
 2402 2403 2405  
 BT #BEAMS (RADIATION)  
 #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 #ELEMENTARY EXCITATIONS  
 PHONONS  
 THERMAL RADIATION  
 RT CORPUSCULAR RADIATION  
 PARTICLE BEAMS  
 PHOTON BEAMS  
 UNKLAPP PROCESS

PHONONS  
 2401 2403  
 NT PHONON BEAMS  
 BT #ELASTIC WAVES  
 #ELEMENTARY EXCITATIONS  
 RT CRYSTAL STRUCTURE  
 LATTICE VIBRATIONS  
 PLASMONS  
 POLARONS

SOUND WAVES  
 UNKLAPP PROCESS

PHORIA  
 0404 0405  
 BT EYE DISEASES

PHOSGENE  
 0412 0603 1808  
 BT #ALIPHATIC COMPOUNDS  
 CHLORIDES  
 CHLORINE COMPOUNDS  
 #GASES  
 HALIDES  
 #HALOGEN COMPOUNDS  
 #POISONS  
 RT CHEMICAL COMPOUNDS

PHOSPHATES  
 0603 1804  
 NT ADENINES  
 ADENOSINE DIPHOSPHATE (ADP)  
 ADENOSINE TRIPHOSPHATE (ATP)  
 ADENOSINES  
 AMMONIUM PHOSPHATES  
 CALCIUM PHOSPHATES  
 DIPHOSPHATES  
 INDIUM PHOSPHATES  
 MONAZITE SANDS  
 NUCLEOTIDES  
 POTASSIUM PHOSPHATES  
 PYRIDINE NUCLEOTIDES  
 URIDYLIC ACID  
 BT #PHOSPHORUS COMPOUNDS  
 RT PHOSPHORIC ACID  
 SKYDROL (TRADEMARK)

PHOSPHENE  
 0408  
 RT LUMINOSITY  
 RETINA  
 VISION

PHOSPHIDES  
 0603 1804  
 NT BORON PHOSPHIDES  
 GALLIUM PHOSPHIDES  
 INDIUM PHOSPHIDES  
 MANGANESE PHOSPHIDES  
 SCHREIBERSITE  
 BT #PHOSPHORUS COMPOUNDS

PHOSPHINES  
 0603 1804  
 BT HYDRIDES  
 #HYDROGEN COMPOUNDS  
 #PHOSPHORUS COMPOUNDS

PHOSPHONITRILES  
 0603 1808  
 BT NITRILES  
 #NITROGEN COMPOUNDS  
 ORGANIC PHOSPHORUS COMPOUNDS  
 #PHOSPHORUS COMPOUNDS

PHOSPHONIUM COMPOUNDS  
 0603 1804  
 BT #PHOSPHORUS COMPOUNDS

PHOSPHORESCENCE  
 0605 2306 2310 2402 3408  
 BT #DECAY  
 EMISSION  
 FLUORESCENCE  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT AFTERGLOWS  
 BIOLUMINESCENCE  
 CHEMILUMINESCENCE  
 ELECTROMAGNETIC PROPERTIES  
 PHOSPHORS  
 PLASMA RADIATION  
 SCINTILLATION  
 TRAPPING

PHOSPHORIC ACID  
 0603 1804  
 BT #ACIDS  
 #PHOSPHORUS COMPOUNDS  
 RT PHOSPHATES

PHOSPHORS  
 0605 1704 1805  
 NT RADIOPHOSPHORS  
 RT FLUORESCENCE  
 IMAGE INTENSIFIERS  
 MERCURY LAMPS  
 PHOSPHORESCENCE  
 PHOTOGRAPHIC FILM

#PHOSPHORUS  
 0603 1807  
 NT PHOSPHORUS ISOTOPES  
 PHOSPHORUS 32

# NASA THESAURUS (ALPHABETICAL LISTING)

#PHOSPHORUS COMPOUNDS  
 0603 1804 1808  
 NT ADENINES  
 ADENOSINE DIPHOSPHATE (ADP)  
 ADENOSINE TRIPHOSPHATE (ATP)  
 ADENOSINES  
 AMMONIUM PHOSPHATES  
 BORON PHOSPHIDES  
 CALCIUM PHOSPHATES  
 DIPHOSPHATES  
 GALLIUM PHOSPHIDES  
 INDIUM PHOSPHATES  
 INDIUM PHOSPHIDES  
 MANGANESE PHOSPHIDES  
 MONAZITE SANDS  
 NUCLEOTIDES  
 ORGANIC PHOSPHORUS COMPOUNDS  
 PHOSPHATES  
 PHOSPHIDES  
 PHOSPHINES  
 PHOSPHONITRILES  
 PHOSPHONIUM COMPOUNDS  
 PHOSPHORIC ACID  
 PHOSPHORUS OXIDES  
 PHOSPHORUS POLYMERS  
 POTASSIUM PHOSPHATES  
 PYRIDINE NUCLEOTIDES  
 SCHREIBERSITE  
 URIDYLIC ACID  
 RT #ALIPHATIC COMPOUNDS  
 GROUP 5A COMPOUNDS

PHOSPHORUS ISOTOPES  
 2406  
 NT PHOSPHORUS 32  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 #PHOSPHORUS  
 PHOSPHORUS METABOLISM  
 0402 0404 0409  
 BT #METABOLISM  
 PHOSPHORUS OXIDES  
 0603 1804  
 BT #CHALCOGENIDES  
 OXIDES  
 #PHOSPHORUS COMPOUNDS

PHOSPHORUS POLYMERS  
 0603 1804 1810  
 BT #PHOSPHORUS COMPOUNDS  
 RT POLYMERS

PHOSPHORUS 32  
 0603 1807 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 #PHOSPHORUS  
 PHOSPHORUS ISOTOPES  
 RADIOACTIVE ISOTOPES

PHOSPHORYLATION  
 0602  
 BT #CHEMICAL REACTIONS

PHOTICS  
 0411 2306 2310  
 RT LIGHT (VISIBLE RADIATION)  
 OPTICS

PHOTO RECONNAISSANCE SPACECRAFT  
 1401 1407 3110  
 BT #MILITARY SPACECRAFT  
 RECONNAISSANCE SPACECRAFT  
 RT SPACECRAFT

PHOTOABSORPTION  
 0603 0605 2306  
 BT ELECTROMAGNETIC ABSORPTION  
 #ENERGY ABSORPTION  
 #RADIATION ABSORPTION

PHOTOCATHODES  
 0902 0905 1413 2306  
 BT CATHODES  
 #ELECTRODES  
 TUBE CATHODES  
 RT IMAGE CONVERTERS  
 IMAGE INTENSIFIERS  
 IMAGE ORTHICONS  
 LIGHT AMPLIFIERS  
 MICROCHANNELS  
 ORTHICONS  
 PHOTOELECTRIC CELLS  
 PHOTOELECTRIC EMISSION  
 PHOTOELECTRIC MATERIALS  
 PHOTOMULTIPLIER TUBES

PHOTOCELLS  
 USE PHOTOELECTRIC CELLS

# NASA THESAURUS (ALPHABETICAL LISTING)

**PHOTOCHEMICAL REACTIONS**  
0602 0605 1407 2306  
**UF** PHOTOCHEMISTRY  
PHOTOREDUCTION  
**NT** PHOTOCHEMISM  
PHOTODECOMPOSITION  
PHOTOLYSIS  
PHOTOSYNTHESIS  
RADIOLYSIS  
**BT** #CHEMICAL REACTIONS  
**RT** ATMOSPHERIC CHEMISTRY  
CHARGE TRANSFER  
SODALITE  
**PHOTOCHEMISTRY**  
**USE** PHOTOCHEMICAL REACTIONS  
**PHOTOCHEMISM**  
0605 1407 2306  
**BT** #CHEMICAL REACTIONS  
PHOTOCHEMICAL REACTIONS  
**RT** COLOR PHOTOGRAPHY  
SODALITE  
**PHOTOCONDUCTIVE CELLS**  
0605 1413 2306 2308  
**RT** CELLS  
PHOTOVOLTAIC CELLS  
**PHOTOCONDUCTIVITY**  
0605 2302 2304 2308 3408  
**UF** PHOTORESISTIVITY  
**BT** #ELECTRICAL PROPERTIES  
ELECTRICAL RESISTIVITY  
#TRANSPORT PROPERTIES  
**RT** CONDUCTIVITY  
ELECTROMAGNETIC PROPERTIES  
PHOTOCONDUCTORS  
PHOTOELECTRICITY  
**PHOTOCONDUCTORS**  
0605 0905 1413 2302 2304 2308  
**UF** PHOTORESISTORS  
**BT** #CONDUCTORS  
SEMICONDUCTORS (MATERIALS)  
**RT** PHOTOCONDUCTIVITY  
PHOTODIODES  
PHOTOELECTRIC CELLS  
PHOTOELECTRIC MATERIALS  
PHOTOMETERS  
PHOTOTRANSISTORS  
RESISTORS  
**PHOTOCURRENTS**  
**USE** #ELECTRIC CURRENT  
PHOTOELECTRIC EMISSION  
**PHOTODECOMPOSITION**  
0605 2306 2405  
**BT** #CHEMICAL REACTIONS  
DECOMPOSITION  
PHOTOCHEMICAL REACTIONS  
**RT** ELECTROMAGNETIC ABSORPTION  
PHOTODETACHMENT  
PHOTOLYSIS  
**PHOTODETACHMENT**  
0602 0605 0902 1407 2306  
**RT** PHOTODECOMPOSITION  
PHOTOIONIZATION  
**PHOTODETECTORS**  
**USE** PHOTOMETERS  
**PHOTODIODES**  
0906 1413 2306  
**BT** #DIODES  
#ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
**RT** LASERS  
PHOTOCONDUCTORS  
PHOTOELECTRIC CELLS  
PHOTOELECTRIC MATERIALS  
PHOTOTRANSISTORS  
PHOTOTUBES  
SOLAR CELLS  
**PHOTODISSOCIATION**  
0602 0605 2306  
**BT** DECOMPOSITION  
DISSOCIATION  
**RT** ELECTROMAGNETIC ABSORPTION  
PHOTOLYSIS  
**PHOTOELASTIC ANALYSIS**  
1406 2306 2310 3203  
**UF** PHOTOELASTIC STRESS MEASUREMENT  
**NT** PHOTOGRAMMETRY  
**RT** NOIRE EFFECTS  
OPTICS  
PHOTOELASTIC MATERIALS  
PHOTOGRAPHIC MEASUREMENT  
POLARIZATION

POLARIZATION (WAVES)  
STRESS ANALYSIS  
STRESS MEASUREMENT  
TEMPERATURE INVERSIONS  
**PHOTOELASTIC MATERIALS**  
2306 2310 2601  
**RT** MATERIALS  
PHOTOELASTIC ANALYSIS  
PHOTOELASTICITY  
**PHOTOELASTIC STRESS MEASUREMENT**  
**USE** PHOTOELASTIC ANALYSIS  
**PHOTOELASTICITY**  
2306 2310 2601  
**NT** PHOTOVISCOELASTICITY  
**BT** ELASTIC PROPERTIES  
#MECHANICAL PROPERTIES  
**RT** BIREFRINGENCE  
DICHROISM  
ELECTROMAGNETIC PROPERTIES  
PHOTOELASTIC MATERIALS  
POLARIZED LIGHT  
PRISMS  
#REFRACTION  
STRESS ANALYSIS  
**PHOTOELECTRIC CELLS**  
0301 1413 2304 2306  
**UF** PHOTOCELLS  
**RT** CELLS  
DIRECT POWER GENERATORS  
ELECTRIC CELLS  
#ELECTROCHEMICAL CELLS  
ENERGY ABSORPTION FILMS  
PHOTOCATHODES  
PHOTOCONDUCTORS  
PHOTODIODES  
PHOTOELECTRIC EMISSION  
PHOTOELECTRIC GENERATORS  
PHOTOELECTRIC MATERIALS  
PHOTOMETERS  
PHOTOMULTIPLIER TUBES  
PHOTOTRANSISTORS  
PHOTOTUBES  
SOLAR CELLS  
SOLAR GENERATORS  
#TRANSDUCERS  
**PHOTOELECTRIC EFFECT**  
0605 2304 2306  
**NT** PHOTOIONIZATION  
**BT** #DECAY  
EMISSION  
ELECTROMAGNETIC PROPERTIES  
PHOTOELECTRIC EMISSION  
PHOTOELECTRICITY  
PHOTOELECTRONS  
**PHOTOELECTRIC EMISSION**  
2306 2402 2405  
**UF** PHOTOCURRENTS  
PHOTOEMISSION  
PHOTOEMISSIVITY  
**BT** #DECAY  
ELECTRON EMISSION  
EMISSION  
PARTICLE EMISSION  
**RT** #ELECTRICAL PROPERTIES  
ELECTROMAGNETIC PROPERTIES  
PHOTOCATHODES  
PHOTOELECTRIC CELLS  
PHOTOELECTRIC EFFECT  
PHOTOELECTRIC MATERIALS  
PHOTOELECTRICITY  
PHOTOIONIZATION  
PHOTOPEAK  
STIMULATED EMISSION  
WORK FUNCTIONS  
**PHOTOELECTRIC GENERATORS**  
0301 0605 2310  
**UF** THERMO-PHOTOVOLTAIC GENERATORS  
**BT** DIRECT POWER GENERATORS  
#ELECTRIC GENERATORS  
**RT** PHOTOELECTRIC CELLS  
SOLAR GENERATORS  
THERMOELECTRIC GENERATORS  
**PHOTOELECTRIC MATERIALS**  
0605 2306 2602  
**UF** PHOTOEMITTERS  
**RT** ELECTRON EMISSION  
MATERIALS  
PHOTOCATHODES  
PHOTOCONDUCTORS  
PHOTODIODES  
PHOTOELECTRIC CELLS  
PHOTOELECTRIC EMISSION

# PHOTOGRAMMETRY

PHOTOELECTRICITY  
PHOTOELECTRONS  
PHOTOTRANSISTORS  
PHOTOTUBES  
PHOTOVOLTAIC CELLS  
**PHOTOELECTRIC PHOTOGRAPHY**  
**USE** ELECTROPHOTOMETERS  
**PHOTOELECTRICITY**  
0605 2304 2306  
**UF** PHOTOELECTRONICS  
PHOTOPIEZOELECTRICITY  
PHOTOSENSORS  
**RT** COMPTON EFFECT  
#ELECTRICITY  
OPTICAL PROPERTIES  
PHOTOCONDUCTIVITY  
PHOTOELECTRIC EFFECT  
PHOTOELECTRIC EMISSION  
PHOTOELECTRIC MATERIALS  
PHOTOELECTRONS  
PHOTOVOLTAGES  
PHOTOVOLTAIC EFFECT  
**PHOTOELECTROMAGNETIC DETECTORS**  
**USE** PHOTOELECTROMAGNETIC EFFECTS  
RADIATION MEASURING INSTRUMENTS  
**PHOTOELECTROMAGNETIC EFFECTS**  
2306 2402 2405  
**UF** PHOTOELECTROMAGNETIC DETECTORS  
**RT** EXCITONS  
INTERMETALLICS  
**PHOTOELECTRONICS**  
**USE** ELECTRONICS  
PHOTOELECTRICITY  
**PHOTOELECTRONS**  
2306 2403 2405  
**BT** CHARGED PARTICLES  
ELECTRONS  
ELEMENTARY PARTICLES  
#PARTICLES  
**RT** ELECTRON EMISSION  
PHOTOELECTRIC EFFECT  
PHOTOELECTRIC MATERIALS  
PHOTOELECTRICITY  
PHOTOIONIZATION  
PHOTOMAGNETIC EFFECTS  
PHOTONEUTRONS  
PHOTONUCLEAR REACTIONS  
PHOTOVOLTAIC EFFECT  
**PHOTOEMISSION**  
**USE** PHOTOELECTRIC EMISSION  
**PHOTOEMISSIVITY**  
**USE** EMISSIVITY  
PHOTOELECTRIC EMISSION  
**PHOTOEMITTERS**  
**USE** PHOTOELECTRIC MATERIALS  
**PHOTOENGRAVING**  
0605 1407 3404 3405  
**RT** PHOTOELECTRIC EFFECT  
PRINTING  
**PHOTO GEOLOGY**  
0605 1306 1407  
**BT** #GEOLOGY  
**RT** AERIAL PHOTOGRAPHY  
EARTH RESOURCES SURVEY AIRCRAFT  
GEOMORPHOLOGY  
ICE MAPPING  
PHOTOGRAMMETRY  
RECONNAISSANCE  
**PHOTOGRAPHOMETERS**  
1406 1407 1902 2306 2310  
**BT** GONIOMETERS  
#MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
**RT** ANGLES (GEOMETRY)  
DIFFRACTOMETERS  
INTERFEROMETERS  
MONOCHROMATORS  
SPECTROMETERS  
**PHOTOGRAMMETRY**  
1303 1407  
**BT** PHOTOELASTIC ANALYSIS  
**RT** AERIAL PHOTOGRAPHY  
MAPPING  
PHOTO GEOLOGY  
PHOTORECONNAISSANCE  
PROJECTORS  
RELIEF MAPS  
STEREOPHOTOGRAPHY  
SURVEYS  
TERRAIN ANALYSIS

# PHOTOGRAPH INTERPRETATION

PHOTOGRAPH INTERPRETATION  
 USE PHOTOINTERPRETATION  
 PHOTOGRAPHIC DEVELOPERS  
 0602 0605 1407 1802  
 UP DEVELOPERS (PHOTOGRAPHY)  
 RT DEVELOPMENT  
 PHOTOGRAPHIC FILM  
 PHOTOGRAPHIC PROCESSING  
 PHOTOGRAPHIC PROCESSING EQUIPMENT  
 PHOTOGRAPHS  
 PHOTOGRAPHIC EMULSIONS  
 0605 1407 1802  
 NT NUCLEAR EMULSIONS  
 BT DISPERSIONS  
 EMULSIONS  
 #MIXTURES  
 SOLUTIONS  
 RT PHOTOGRAPHIC FILM  
 PHOTOGRAPHIC PROCESSING  
 PHOTOSENSITIVITY  
 #PHOTOGRAPHIC EQUIPMENT  
 1407 1412 2310  
 NT BAKER-NUNN CAMERA  
 BALLISTIC CAMERAS  
 CAMERAS  
 DELFT CAMERA  
 FRAMING CAMERAS  
 HIGH SPEED CAMERAS  
 LALLEMAND CAMERAS  
 PANORAMIC CAMERAS  
 PHOTOGRAPHIC PROCESSING EQUIPMENT  
 PHOTOGRAPHIC RECTIFIERS  
 SCHMIDT CAMERAS  
 TELEVISION CAMERAS  
 RT EQUIPMENT  
 LENSES  
 #OPTICAL EQUIPMENT  
 OPTICAL FILTERS  
 PHOTOGRAPHIC FILM  
 PHOTOMETERS  
 PROJECTORS  
 TELEVISION CAMERAS  
 PHOTOGRAPHIC FILM  
 0605 1407 1802  
 NT MICROFILMS  
 BT FILMS  
 MAGAZINES (SUPPLY CHAMBERS)  
 OPTICAL FILTERS  
 PHOSPHORS  
 PHOTOGRAPHIC DEVELOPERS  
 PHOTOGRAPHIC EMULSIONS  
 #PHOTOGRAPHIC EQUIPMENT  
 PHOTOGRAPHS  
 POLYMERIC FILMS  
 SABATIER REACTION  
 PHOTOGRAPHIC MEASUREMENT  
 1406 1407  
 BT STRESS ANALYSIS  
 RT DOSIMETERS  
 MEASUREMENT  
 OPTICAL CORRECTION PROCEDURE  
 #OPTICAL MEASUREMENT  
 PHOTOELASTIC ANALYSIS  
 PHOTOGRAPHIC TRACKING  
 PHOTOINTERPRETATION  
 PHOTOMETRY  
 PHOTORECONNAISSANCE  
 SPECTROMETERS  
 PHOTOGRAPHIC PROCESSING  
 0602 0605 1407  
 RT DARKROOMS  
 PHOTOGRAPHIC DEVELOPERS  
 PHOTOGRAPHIC EMULSIONS  
 PHOTOGRAPHS  
 #PHOTOGRAPHY  
 PRINTING  
 PROCESSING  
 PHOTOGRAPHIC PROCESSING EQUIPMENT  
 1407 1802  
 BT #PHOTOGRAPHIC EQUIPMENT  
 RT DARKROOMS  
 PHOTOGRAPHIC DEVELOPERS  
 #PHOTOGRAPHY  
 REPRODUCTION (COPYING)  
 PHOTOGRAPHIC RECORDING  
 1407 3405  
 UP PHOTOGRAPHIC RECORDING INSTRUMENTS  
 BT RECORDING  
 RT DATA RECORDING  
 INTERMITTENCY HYPOTHESIS  
 PHOTOGRAPHS  
 #RECORDING INSTRUMENTS

PHOTOGRAPHIC RECORDING INSTRUMENTS  
 USE OPTICAL MEASURING INSTRUMENTS  
 PHOTOGRAPHIC RECORDING  
 #RECORDING INSTRUMENTS  
 PHOTOGRAPHIC RECTIFIERS  
 0501 1411 1412 2310  
 BT #OPTICAL EQUIPMENT  
 #PHOTOGRAPHIC EQUIPMENT  
 RT CONDENSERS  
 PHOTOGRAPHIC TRACKING  
 0709 1109 1407 3001  
 BT #TRACKING (POSITION)  
 RT CINETHODOLITES  
 OPTICAL TRACKING  
 PHOTOGRAPHIC MEASUREMENT  
 SATELLITE TRACKING  
 SPACE DETECTION AND TRACKING SYSTEM  
 PHOTOGRAPHS  
 1407 1412  
 UP PICTURES  
 NT CLOUD PHOTOGRAPHS  
 LUNAR PHOTOGRAPHS  
 MICROPHOTOGRAPHS  
 MOTION PICTURES  
 PHOTOMICROGRAPHS  
 RT #DISPLAY DEVICES  
 IMAGES  
 MOSAICS  
 OPTICAL CORRECTION PROCEDURE  
 PHOTOGRAPHIC DEVELOPERS  
 PHOTOGRAPHIC FILM  
 PHOTOGRAPHIC PROCESSING  
 PHOTOGRAPHIC RECORDING  
 #PHOTOGRAPHY  
 REPRESENTATIONS  
 SPATIAL FILTERING  
 VISUAL AIDS  
 XEROGRAPHY  
 #PHOTOGRAPHY  
 1407  
 UP PHOTOMECHANICS  
 X RAY PHOTOGRAPHY  
 NT AERIAL PHOTOGRAPHY  
 ALL SKY PHOTOGRAPHY  
 ASTRONOMICAL PHOTOGRAPHY  
 AUTORADIOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 CHRONOPHOTOGRAPHY  
 CINEMATOGRAPHY  
 CLOUD PHOTOGRAPHY  
 COLOR PHOTOGRAPHY  
 ELECTRO-OPTICAL PHOTOGRAPHY  
 ELECTRON PHOTOGRAPHY  
 FRACTOGRAPHY  
 FRAME PHOTOGRAPHY  
 HOLOGRAPHY  
 INFRARED IMAGERY  
 INFRARED PHOTOGRAPHY  
 LUNAR PHOTOGRAPHY  
 METRIC PHOTOGRAPHY  
 MICROWAVE PHOTOGRAPHY  
 MULTISPECTRAL PHOTOGRAPHY  
 ORTHOPHOTOGRAPHY  
 PHOTOMICROGRAPHY  
 RADAR PHOTOGRAPHY  
 ROCKET-BORNE PHOTOGRAPHY  
 SATELLITE-BORNE PHOTOGRAPHY  
 SCHLIEREN PHOTOGRAPHY  
 SHADOWGRAPH PHOTOGRAPHY  
 SPACEBORNE PHOTOGRAPHY  
 SPECTROPHOTOGRAPHY  
 STEREOPHOTOGRAPHY  
 ULTRAVIOLET PHOTOGRAPHY  
 ULTRAVIOLET PHOTOMETRY  
 UNDERWATER PHOTOGRAPHY  
 UROGRAPHY  
 RT BRIGHTNESS TEMPERATURE  
 CAMERAS  
 DARKROOMS  
 EARTH RESOURCES  
 EVAPOROGRAPHY  
 EXPOSURE  
 GRAPHIC ARTS  
 HS-801 AIRCRAFT  
 ICE MAPPING  
 #IMAGERY  
 IMAGING TECHNIQUES  
 MAPPING  
 MULTISPECTRAL BAND SCANNERS  
 PANORAMIC CAMERAS  
 PHOTOGRAPHIC PROCESSING  
 PHOTOGRAPHIC PROCESSING EQUIPMENT

# NASA THESAURUS (ALPHABETICAL LISTING)

PHOTOGRAPHS  
 PHOTOMECHANICAL EFFECT  
 PHOTORECONNAISSANCE  
 PROJECTORS  
 RADIOGRAPHY  
 REPRODUCTION (COPYING)  
 TIMBER INVENTORY  
 WAVE FRONT RECONSTRUCTION  
 XEROGRAPHY  
 PHOTOINTERPRETATION  
 1401  
 UP PHOTOGRAPH INTERPRETATION  
 RT AERIAL PHOTOGRAPHY  
 ANALYZING  
 GROUND TRUTH  
 INTERPRETATION  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTORECONNAISSANCE  
 SPATIAL FILTERING  
 PHOTOIONIZATION  
 0605 2306 2401  
 BT #DECAY  
 EMISSION  
 #IONIZATION  
 PHOTOELECTRIC EFFECT  
 ATMOSPHERIC IONIZATION  
 RT AURORAL IONIZATION  
 AURORAL IRRADIATION  
 ELECTROMAGNETIC PROPERTIES  
 ELECTRON EMISSION  
 GAS IONIZATION  
 PHOTODETACHMENT  
 PHOTOELECTRIC EMISSION  
 PHOTOELECTRONS  
 PHOTOLUMINESCENCE  
 0605 2306 2402 3408  
 NT X RAY FLUORESCENCE  
 BT #DECAY  
 EMISSION  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT FLUORESCENCE  
 PHOTOLUMINESCENT BANDS  
 PHOTOLUMINESCENT BANDS  
 0605 1411 2306  
 BT #SPECTRA  
 SPECTRAL BANDS  
 RT ABSORPTION SPECTRA  
 BANDS  
 EMISSION SPECTRA  
 PHOTOLUMINESCENCE  
 PHOTOLYSIS  
 0602 0605 2306  
 NT RADIOLYSIS  
 BT #CHEMICAL REACTIONS  
 DECOMPOSITION  
 PHOTOCHEMICAL REACTIONS  
 RT ELECTROLYSIS  
 PHOTODECOMPOSITION  
 PHOTODISSOCIATION  
 PHOTOMAGNETIC EFFECTS  
 2306 2307 2402 2405  
 RT DEUTERONS  
 GAMMA RAYS  
 PHOTOELECTRONS  
 SPIN DECOUPLING  
 PHOTOMECHANICAL EFFECT  
 0605 1407 3404 3405  
 RT EFFECTS  
 LITHOGRAPHY  
 PHOTOENGRAVING  
 #PHOTOGRAPHY  
 PRINTING  
 PHOTOMECHANICS  
 USE #PHOTOGRAPHY  
 PRINTING  
 PHOTOMETERS  
 1406 2306  
 UP MICROPHOTOMETERS  
 PHOTODETECTORS  
 TEMPERATURE PHOTOMETERS  
 NT ELECTROPHOTOMETERS  
 ULTRAVIOLET SPECTROMETERS  
 ULTRAVIOLET SPECTROPHOTOMETERS  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT BOLOMETERS  
 DENSITOMETERS  
 ELECTROPHOTOMETRY  
 ELLIPSONETERS  
 HORIZON SCANNERS



# NASA THESAURUS (ALPHABETICAL LISTING)

INFRARED SPECTROPHOTOMETERS  
 MICRODENSITOMETERS  
 NEPHELOMETERS  
 \*OPTICAL MEASUREMENT  
 PHOTOCONDUCTORS  
 PHOTOELECTRIC CELLS  
 \*PHOTOGRAPHIC EQUIPMENT  
 PHOTOHETRY  
 PHOTOTRANSISTORS  
 POLARIMETERS  
 PYRANOMETERS  
 RADIONETERS  
 REFLECTOMETERS  
 SPECTROMETERS  
 SPECTROPHOTOMETERS  
 TRANSMISSIOMETERS  
 PHOTOMETRY  
 1406 1409 1412 2310  
 NT ASTRONOMICAL PHOTOMETRY  
 ELECTROPHOTOMETRY  
 SPECTROPHOTOMETRY  
 STELLAR SPECTROPHOTOMETRY  
 TELEPHOTOMETRY  
 ULTRAVIOLET PHOTOMETRY  
 VISUAL PHOTOMETRY  
 BT \*OPTICAL MEASUREMENT  
 RT CHEMICAL ANALYSIS  
 COLORIMETRY  
 ILLUMINATING  
 ILLUMINATION  
 LIGHT (VISIBLE RADIATION)  
 LUMINANCE  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOMETERS  
 POLARIMETRY  
 REFLECTANCE  
 \*SPECTROSCOPY  
 TRANSMITTANCE  
 PHOTOMICROGRAPHS  
 1407 2306 2310 2402  
 BT PHOTOGRAPHS  
 RT PHOTOMICROGRAPHY  
 PHOTOMICROGRAPHY  
 1407 2306 2310 2402  
 UP MICROGRAPHY  
 BT \*IMAGERY  
 \*PHOTOGRAPHY  
 RT BLACK AND WHITE PHOTOGRAPHY  
 ELECTRON MICROSCOPES  
 METALLOGRAPHY  
 MICROSCOPES  
 MICROSCOPY  
 MICROSTRUCTURE  
 PHOTOMICROGRAPHS  
 PHOTOMULTIPLIER TUBES  
 1002 2306 0905  
 UP ELECTRON MULTIPLIERS  
 MULTIPLIER PHOTOTUBES  
 NT FREQUENCY MODULATION  
 PHOTOMULTIPLIERS  
 BT \*AMPLIFIERS  
 CATHODES  
 COLD CATHODE TUBES  
 CURRENT AMPLIFIERS  
 \*ELECTRODES  
 PHOTOTUBES  
 TUBE CATHODES  
 BT DYNODES  
 MULTIPLIER DISCHARGES  
 MULTIPLIERS  
 PHOTOCATHODES  
 PHOTOELECTRIC CELLS  
 SCINTILLATION COUNTERS  
 SECONDARY EMISSION  
 PHOTON ABSORPTION  
 USE ELECTROMAGNETIC ABSORPTION  
 PHOTON BEAMS  
 2306 2402 2403 2405  
 NT LIGHT BEAMS  
 BT \*BEAMS (RADIATION)  
 \*ELECTROMAGNETIC RADIATION  
 RT BEAM WAVEGUIDES  
 GAMMA RAY BEAMS  
 INCIDENT RADIATION  
 LASER OUTPUTS  
 OPTICAL PATHS  
 OPTICAL SCANNERS  
 PHOTON BEAMS  
 PHOTONIC PROPULSION  
 PHOTONS  
 REFLECTED WAVES  
 REFRACTED WAVES

PHOTON DENSITY  
 2306 2403 2405  
 BT FLUX DENSITY  
 #RATES (PER TIME)  
 PHOTON-ELECTRON INTERACTION  
 0605 2202 2405  
 RT ELASTIC SCATTERING  
 ELECTRON SCATTERING  
 INTERACTIONS  
 UNKLAPP PROCESS  
 PHOTOEUTRONS  
 2202 2306 2405  
 BT ELEMENTARY PARTICLES  
 FERMIONS  
 NEUTRAL PARTICLES  
 NEUTRONS  
 NUCLEAR RADIATION  
 #PARTICLES  
 RT NUCLEAR PARTICLES  
 #NUCLEAR REACTIONS  
 PHOTOELECTRONS  
 PHOTONUCLEAR REACTIONS  
 VECTOR DOMINANCE MODEL  
 PHOTONIC PROPULSION  
 2202 2306 2308 2402 2405  
 BT LOW THRUST PROPULSION  
 #PROPULSION  
 SPACECRAFT PROPULSION  
 RT ELECTROMAGNETIC PROPULSION  
 PHOTON BEAMS  
 PHOTONS  
 0710 2306 2310 2402 2403 2405  
 BT BOSONS  
 ELEMENTARY PARTICLES  
 NUCLEAR PARTICLES  
 #PARTICLES  
 RT ANNIHILATION REACTIONS  
 COSMIC RAYS  
 GAMMA RAYS  
 LIGHT (VISIBLE RADIATION)  
 LIGHT BEAMS  
 NUCLEAR RADIATION  
 OPTICAL PROPERTIES  
 PHOTON BEAMS  
 PHOTONUCLEAR REACTIONS  
 PLANCKS CONSTANT  
 QUANTUM THEORY  
 RADIATION  
 ROTONS  
 PHOTONUCLEAR REACTIONS  
 2202 2205 2405  
 BT #NUCLEAR REACTIONS  
 RT LIGHT (VISIBLE RADIATION)  
 #PARTICLE INTERACTIONS  
 PHOTOELECTRONS  
 PHOTONEUTRONS  
 PHOTONS  
 PHOTOOXIDATION  
 0602 0605 2306  
 BT #CHEMICAL REACTIONS  
 OXIDATION  
 PHOTOPeAK  
 2306 2402  
 RT AMPLITUDE DISTRIBUTION ANALYSIS  
 PHOTOELECTRIC EMISSION  
 PULSE AMPLITUDE  
 SCINTILLATION COUNTERS  
 PHOTOPHILIC PLANTS  
 0404 0409  
 BT #PLANTS (BOTANY)  
 RT LIGHT (VISIBLE RADIATION)  
 PHOTOSENSITIVITY  
 PHOTOPIEZOELECTRICITY  
 USE PHOTOELECTRICITY  
 PIEZOELECTRICITY  
 PHOTOPLASTICITY  
 1809 3408  
 BT #MECHANICAL PROPERTIES  
 PLASTIC PROPERTIES  
 PHOTOPRODUCTION  
 1407  
 BT #DECAY  
 #NUCLEAR REACTIONS  
 RT ELECTROMAGNETIC ABSORPTION  
 PAIR PRODUCTION  
 RADIOACTIVE DECAY  
 VECTOR DOMINANCE MODEL  
 PHOTORECEPTORS  
 1413  
 BT #ANATOMY  
 SENSE ORGANS  
 RT PHOTSENSITIVITY

## PHOTOTUBES

RETINA  
 YOUNG-HELMHOLTZ THEORY  
 PHOTORECONNAISSANCE  
 1303 1401 1407 3401  
 BT \*IMAGERY  
 RECONNAISSANCE  
 RT AERIAL RECONNAISSANCE  
 BLACK AND WHITE PHOTOGRAPHY  
 EARTH RESOURCES SURVEY AIRCRAFT  
 GROUND TRUTH  
 HS-801 AIRCRAFT  
 PHOTOGRAPHMETRY  
 PHOTOGRAPHIC MEASUREMENT  
 \*PHOTOGRAPHY  
 PHOTOINTERPRETATION  
 SPECTRAL RECONNAISSANCE  
 PHOTOREDUCTION  
 USE PHOTOCHEMICAL REACTIONS  
 REDUCTION (CHEMISTRY)  
 PHOTORESISTIVITY  
 USE PHOTOCONDUCTIVITY  
 PHOTORESISTORS  
 USE PHOTOCONDUCTORS  
 PHOTORESISTIVITY  
 0605 0902 1413 2304 2306  
 RT LIGHT ADAPTATION  
 PHOTOTROPISM  
 BT #SENSITIVITY  
 RT LIGHT (VISIBLE RADIATION)  
 PHOTOGRAPHIC EMULSIONS  
 PHOTOPHILIC PLANTS  
 PHOTORECEPTORS  
 THRESHOLDS (PERCEPTION)  
 PHOTOSENSORS  
 USE PHOTOELECTRICITY  
 RADIATION MEASURING INSTRUMENTS  
 PHOTOSPHERE  
 1302  
 RT CHROMOSPHERE  
 FACULAE  
 SOLAR ATMOSPHERE  
 SOLAR PHYSICS  
 SPICULES  
 SUN  
 SUNSPOTS  
 PHOTOSTRESSES  
 2306 2405  
 BT #STRESSES  
 PHOTOSYNTHESIS  
 0404 0409 0507 2306  
 BT #CHEMICAL REACTIONS  
 PHOTOCHEMICAL REACTIONS  
 RT #CARBOHYDRATES  
 CHLOROPHYLLS  
 CHLOROPLASTS  
 CROP GROWTH  
 RESPIRATION  
 PHOTOTHERMOTROPISM  
 USE #ANISOTROPY  
 PHOTOTROPISM  
 TEMPERATURE EFFECTS  
 PHOTOTRANSISTORS  
 0905 0906 2306 2402  
 BT \*ELECTRONIC EQUIPMENT  
 SEMICONDUCTOR DEVICES  
 SOLID STATE DEVICES  
 TRANSISTORS  
 RT JUNCTION TRANSISTORS  
 PHOTOCONDUCTORS  
 PHOTODIODES  
 PHOTOELECTRIC CELLS  
 PHOTOELECTRIC MATERIALS  
 PHOTOMETERS  
 PHOTOTUBES  
 PHOTOTROPISM  
 0404 0409 2306  
 UP PHOTOTHERMOTROPISM  
 BT PHOTSENSITIVITY  
 #SENSITIVITY  
 RT COLOR  
 CROP VIGOR  
 OPTICAL PROPERTIES  
 #PLANTS (BOTANY)  
 PHOTOTUBES  
 0905 2306  
 NT FREQUENCY MODULATION  
 PHOTOMULTIPLIERS  
 PHOTOMULTIPLIER TUBES  
 BT CATHODES  
 COLD CATHODE TUBES  
 \*ELECTRODES  
 TUBE CATHODES

# PHOTOVISCOELASTICITY

RT FLYING SPOT SCANNERS  
GAS DISCHARGE TUBES  
PHOTODIODES  
PHOTOELECTRIC CELLS  
PHOTOELECTRIC MATERIALS  
PHOTOTRANSISTORS  
PHOTOVISCOELASTICITY  
2306 2311 2601  
BT ELASTIC PROPERTIES  
#MECHANICAL PROPERTIES  
PHOTOELASTICITY  
VISCOELASTICITY  
RT ELECTROMAGNETIC PROPERTIES  
PHOTOVOLTAGES  
0902 2304 2306  
BT ELECTRIC POTENTIAL  
#POTENTIAL ENERGY  
RT PHOTOELECTRICITY  
PHOTOVOLTAIC EFFECT  
PHOTOVOLTAIC CELLS  
0301 1413 2304 2306  
BT #ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
VOLTAGE GENERATORS  
RT CELLS  
#ELECTROCHEMICAL CELLS  
PHOTOCONDUCTIVE CELLS  
PHOTOELECTRIC MATERIALS  
PHOTOVOLTAIC EFFECT  
SOLAR CELLS  
SOLAR GENERATORS  
PHOTOVOLTAIC CONVERSION  
0301 0302 1802  
RT ENERGY ABSORPTION FILMS  
PHOTOVOLTAIC EFFECT  
0301 0604 2304  
BT #ELECTRICAL PROPERTIES  
RT ELECTROMAGNETIC PROPERTIES  
ELECTRON EMISSION  
PHOTOELECTRICITY  
PHOTOELECTRONS  
PHOTOVOLTAGES  
PHOTOVOLTAIC CELLS  
PTHALATES  
0603 1808  
BT #ESTERS  
PTHALOCYANIN  
0603 1808  
BT #HETEROCYCLIC COMPOUNDS  
RT PIGMENTS  
PHUGOID OSCILLATIONS  
USE #OSCILLATIONS  
#OSCILLATORS  
PITCH (INCLINATION)  
PHYLOQUINONE  
0403 0405 1808  
UP VITAMIN K  
BT #HETEROCYCLIC COMPOUNDS  
VITAMINS  
PHYSICAL CHEMISTRY  
0602 2401 2404 2405  
RT AEROTHERMOCHEMISTRY  
ATMOSPHERIC CHEMISTRY  
CHEMICAL ANALYSIS  
CHEMISTRY  
NUCLEAR CHEMISTRY  
PHYSICAL SCIENCES  
PHYSICS  
THERMOCHEMISTRY  
THERMODYNAMICS  
PHYSICAL CONSTANTS TESTING REACTOR  
USE NUCLEAR RESEARCH AND TEST REACTORS  
WATER COOLED REACTORS  
PHYSICAL ENDURANCE  
USE PHYSICAL FITNESS  
PHYSICAL EXAMINATIONS  
0401 0405 0408  
RT FLIGHT FITNESS  
MOBILE QUARANTINE FACILITY  
PERCUSSION  
PERSONNEL SELECTION  
PHYSICAL EXERCISE  
0401 0405 0408  
RT HYPOKINESIA  
TREADMILLS  
PHYSICAL FACTORS  
0408 2311  
BT PHYSIOLOGICAL FACTORS  
RT PHYSICS  
WORK

PHYSICAL FITNESS  
0401 0404 0405 0408  
UP PHYSICAL ENDURANCE  
BT FITNESS  
RT ATHLETES  
CRAMPTON TEST  
EXERCISE (PHYSIOLOGY)  
FLIGHT FITNESS  
PHYSICAL WORK  
PHYSIOLOGICAL TESTS  
TREADMILLS  
WORK CAPACITY  
PHYSICAL OPTICS  
2306 2310  
RT CRYSTAL OPTICS  
FIBER OPTICS  
OPTICAL PROPERTIES  
OPTICS  
QUANTUM THEORY  
THEORIES  
PHYSICAL PROPERTIES  
2311 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ACOUSTIC PROPERTIES  
ADSORPTIVITY  
BRAGG ANGLE  
BUOYANCY  
#CHEMICAL PROPERTIES  
COLOR  
DENSITY (MASS/VOLUME)  
DIFFUSIVITY  
DURABILITY  
EDDY CURRENTS  
ELASTIC PROPERTIES  
#ELECTRICAL PROPERTIES  
ELECTROMAGNETIC PROPERTIES  
FUSIBILITY  
HYGROSCOPICITY  
HYSTERESIS  
#IMPEDANCE  
INTERNAL FRICTION  
ISOTROPY  
MAGNETIC DIPOLES  
#MAGNETIC PROPERTIES  
#MECHANICAL PROPERTIES  
OPTICAL PROPERTIES  
PERMEABILITY  
POLYMORPHISM  
PROPELLANT PROPERTIES  
#SURFACE PROPERTIES  
THERMAL EXPANSION  
#THERMODYNAMIC PROPERTIES  
THIXOTROPY  
TRANSMISSIVITY  
#TRANSPORT PROPERTIES  
VIRTUAL PROPERTIES  
VISCOSITY  
PHYSICAL SCIENCES  
0404 3409  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ENVIRONMENTAL ENGINEERING  
LIFE SCIENCES  
PHYSICAL CHEMISTRY  
PHYSICAL WORK  
0404 0502 0506  
UP EXERTION  
BT WORK  
RT EFFORT  
HORSEPOWER  
PHYSICAL FITNESS  
TASKS  
TREADMILLS  
WORK CAPACITY  
PHYSICIANS  
0401 0405 0408  
BT MEDICAL PERSONNEL  
#PERSONNEL  
PHYSICS  
2311  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ASTROPHYSICS  
ATOMIC PHYSICS  
BIOPHYSICS  
BRANCHING (PHYSICS)  
CLOUD PHYSICS  
#COMBUSTION

# NASA THESAURUS (ALPHABETICAL LISTING)

#ELECTROPHYSICS  
GEOPHYSICS  
HEALTH PHYSICS  
KINETICS  
LOW TEMPERATURE PHYSICS  
NEUTRON PHYSICS  
#NUCLEAR PHYSICS  
PHYSICAL CHEMISTRY  
PHYSICAL FACTORS  
PLASMA PHYSICS  
POLYMER PHYSICS  
PSYCHOPHYSICS  
RADIO PHYSICS  
REENTRY PHYSICS  
SOLAR PHYSICS  
#THEORETICAL PHYSICS  
PHYSIOCHEMISTRY  
0403 0404 0408 1808  
BT BIOCHEMISTRY  
RT CHEMISTRY  
MOLECULAR BIOLOGY  
ORGANIC CHEMISTRY  
PHYSIOLOGY  
PHYSIOGRAPHY  
USE GEOMORPHOLOGY  
PHYSIOLOGICAL ACCELERATION  
0401 0405 0408  
BT ACCELERATION (PHYSICS)  
#RATES (PER TIME)  
RT DECELERATION  
IMPACT ACCELERATION  
PHYSIOLOGICAL DEFENSES  
0404 0405 0408 0412  
RT ANTIBODIES  
ANTIGENS  
DEFENSE  
INOCULUM  
INTERFERON  
PHYSIOLOGICAL RESPONSES  
#PHYSIOLOGICAL EFFECTS  
0401 0403 0405  
RT HEMODYNAMIC RESPONSES  
PHYSIOLOGICAL RESPONSES  
RT BIOLOGICAL EFFECTS  
CHOLERA  
COMFORT  
DIVING (UNDERWATER)  
EFFECTS  
ENVIRONMENTAL ENGINEERING  
#ENVIRONMENTS  
GEOTROPISM  
GONADS  
HEMATOPOIESIS  
HEMATOPOIETIC SYSTEM  
HUMAN REACTIONS  
RADIATION EFFECTS  
REACTION TIME  
RELATIVE BIOLOGICAL EFFECTIVENESS  
(RBE)  
PHYSIOLOGICAL FACTORS  
0401 0405 0408  
NT PHYSICAL FACTORS  
RT ASTRONAUT PERFORMANCE  
CHEMICAL WARFARE  
FLIGHT STRESS (BIOLOGY)  
PHYSIOLOGICAL INDEXES  
USE PHYSIOLOGICAL TESTS  
PHYSIOLOGICAL RESPONSES  
0408  
NT HEMODYNAMIC RESPONSES  
BT #PHYSIOLOGICAL EFFECTS  
#RESPONSES  
RT PATHOLOGICAL EFFECTS  
PHYSIOLOGICAL DEFENSES  
PHYSIOLOGICAL TELEMETRY  
USE BIOTELEMETRY  
PHYSIOLOGICAL TESTS  
0401 0405 0408  
UP PHYSIOLOGICAL INDEXES  
NT BODY SWAY TEST  
CARBOXYHEMOGLOBIN TEST  
COOMB TEST  
CRAMPTON TEST  
EAR PRESSURE TEST  
VESTIBULAR TESTS  
WEBER TEST  
RT CARDIOGRAPHY  
CERTIFICATION  
ENVIRONMENTAL INDEX  
#ENVIRONMENTAL TESTS  
MOBILE QUARANTINE FACILITY  
PERSONNEL SELECTION

# NASA THESAURUS (ALPHABETICAL LISTING)

## #PINCH EFFECT

PHYSICAL FITNESS  
PILOT SELECTION  
PSYCHOMOTOR PERFORMANCE  
#SENSORIMOTOR PERFORMANCE  
TAYLOR MANIFEST ANXIETY SCALE TESTS  
TREADMILLS  
URINALYSIS

PHYSIOLOGY  
0408  
UF ENDOGENOUS CONDITIONS  
NT AUDIOLOGY  
BODY COMPOSITION (BIOLOGY)  
ELECTROPHYSIOLOGY  
HEMATOPOIETIC SYSTEM  
LAMELLA  
MENSTRUATION  
NEUROPHYSIOLOGY  
PSYCHOPHYSIOLOGY  
RESPIRATORY PHYSIOLOGY  
RT DIFFERENTIATION (BIOLOGY)  
ELECTRIC STIMULI  
HOMEOSTASIS  
HUMAN BODY  
LOCOMOTION  
MITOSIS  
NUTRITION  
ORGANISMS  
PHYSIOCHEMISTRY  
REGENERATION (PHYSIOLOGY)  
REGULARITY  
RUGGEDNESS  
#STRESS (PHYSIOLOGY)

PI-ELECTRONS  
0604 2401 2403 2603  
BT CHARGED PARTICLES  
ELECTRONS  
ELEMENTARY PARTICLES  
#PARTICLES  
RT MOLECULAR ELECTRONICS  
NUCLEAR PARTICLES

PIAGGIO AIRCRAFT  
0201 0204  
NT P-166 AIRCRAFT  
PD-808 AIRCRAFT  
RT AIRCRAFT  
PIAGGIO-DOUGLAS PD-808 AIRCRAFT  
USE PD-808 AIRCRAFT  
PIAGGIO P-166 AIRCRAFT  
USE P-166 AIRCRAFT  
PIASECKI AIRCRAFT  
0207  
UF PIASECKI MILITARY AIRCRAFT  
NT VZ-8 AIRCRAFT  
RT AIRCRAFT  
PIASECKI MILITARY AIRCRAFT  
USE PIASECKI AIRCRAFT  
PICKLING  
USE CHEMICAL CLEANING  
PICRATES  
1808  
BT NITRO COMPOUNDS  
#NITROGEN COMPOUNDS

PICTURE TUBES  
0905 1002  
UF KINESCOPES  
RT #DISPLAY DEVICES  
#ELECTRON TUBES  
FLYING SPOT SCANNERS  
TELEVISION EQUIPMENT

PICTURES  
USE PHOTOGRAPHS

PIERCING  
1504  
UF PUNCTURING  
RT CUTTING  
DRILLING  
EXTRUDING  
FORGING  
#METAL WORKING  
PENETRATION  
PERFORATING  
PERFORATION  
SPARK MACHINING  
VULNERABILITY

PIEZOELECTRIC CRYSTALS  
1002 2304 2404 2601  
BT CRYSTAL OSCILLATORS  
#CRYSTALS  
RT MICROSONICS  
PIEZOELECTRIC TRANSDUCERS  
PIEZORESISTIVE TRANSDUCERS

QUARTZ TRANSDUCERS  
SINGLE CRYSTALS  
PIEZOELECTRIC GAGES  
1002 1203 1408 2304 2601  
BT #MEASURING INSTRUMENTS  
PIEZOELECTRIC TRANSDUCERS  
PIEZORESISTIVE TRANSDUCERS  
PRESSURE GAGES  
#TRANSDUCERS  
RT PRESSURE SENSORS  
STRAIN GAGES  
PIEZOELECTRIC TRANSDUCERS  
1002 2304 2601  
NT PIEZOELECTRIC GAGES  
BT #TRANSDUCERS  
RT PIEZOELECTRIC CRYSTALS  
PRAETERSONIC DEVICES  
PIEZOELECTRICITY  
1002 2304 2404 2601  
UF PHOTOPIEZOELECTRICITY  
BT #ELECTRICAL PROPERTIES  
#MECHANICAL PROPERTIES  
RT CRYSTAL OSCILLATORS  
ELASTIC PROPERTIES  
#ELECTRICITY  
ELECTROSTRICTION  
PIEZORESISTIVE TRANSDUCERS  
PYROELECTRICITY

PIEZOMETERS  
0905 1408 2601  
BT #MEASURING INSTRUMENTS  
PRESSURE GAGES  
RT SEEPAGE  
PIEZORESISTIVE TRANSDUCERS  
0905 1002 1406 1408  
NT PIEZOELECTRIC GAGES  
BT #TRANSDUCERS  
RT PIEZOELECTRIC CRYSTALS  
PIEZOELECTRICITY

PIGEONS  
0402  
BT #ANIMALS  
BIRDS  
VERTEBRATES

PIGGYBACK SYSTEMS  
2806 3106 3107 3110 3409  
RT AIR LAUNCHING  
MULTISTAGE ROCKET VEHICLES  
PAYLOAD MASS RATIO  
PAYLOADS  
SYSTEMS

PIGMENTS  
1802 1805  
NT CAROTENE  
CHLOROPHYLLS  
CYTOCHROMES  
MELANIN  
RT #ADDITIVES  
ANATASE  
FILLERS  
INKS  
MYOGLOBIN  
PAINTS  
PHTHALOCYANIN  
RUTILE  
SKIN (ANATOMY)

PIGS (SWINE)  
USE SWINE

PILE FOUNDATIONS  
3202  
BT FOUNDATIONS  
RT FILES

FILES  
2202 2203 2204 2405  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #NUCLEAR REACTORS  
PILE FOUNDATIONS

PILLOWS  
0506 0508 1811 3203  
RT COUCHES  
CUSHIONS  
SEATS

PILOCARPINE  
0403 0405 0409  
BT ALKALOIDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS

PILOT ERROR  
0203 0502 2103 2104  
BT ERRORS

RT AIRCRAFT ACCIDENTS  
COLLISIONS  
CRASH LANDING  
#CRASHES  
HUMAN FACTORS ENGINEERING  
#HUMAN PERFORMANCE  
MIDAIR COLLISIONS  
PILOT LANDING AID TELEVISION SYSTEM  
USE PLAT SYSTEM  
PILOT PERFORMANCE  
0502 0506  
BT #HUMAN PERFORMANCE  
RT AIRCRAFT PERFORMANCE  
ASTRONAUT PERFORMANCE  
INTRAVEHICULAR ACTIVITY  
MAN OPERATED PROPULSION SYSTEMS  
OPERATOR PERFORMANCE  
PERFORMANCE  
PILOT SELECTION  
PSYCHOMOTOR PERFORMANCE  
#SENSORIMOTOR PERFORMANCE

PILOT PLANTS  
1505 3404  
RT INDUSTRIAL PLANTS  
#MODELS  
PRODUCT DEVELOPMENT  
PROTOTYPES

PILOT SELECTION  
0502 0506  
BT PERSONNEL SELECTION  
#SELECTION  
RT PHYSIOLOGICAL TESTS  
PILOT PERFORMANCE  
PILOT TRAINING  
PSYCHOLOGICAL TESTS

PILOT TRAINING  
0502 0506 2101 2103 3401  
BT #EDUCATION  
RT ASTRONAUT TRAINING  
EJECTION INJURIES  
EJECTION TRAINING  
FLIGHT SIMULATORS  
FLIGHT TRAINING  
PILOT SELECTION  
SPACE FLIGHT TRAINING  
TRAINING SIMULATORS

PILOTED CENTRIFUGES  
USE HUMAN CENTRIFUGES

#PILOTLESS AIRCRAFT  
0201 2102 3110  
(CONVENTIONAL AIRCRAFT CONVERTED FOR  
REMOTE CONTROL)  
RT DRONE AIRCRAFT  
FIREBEE 2 TARGET DRONE AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
TARGET DRONE AIRCRAFT  
RT BALLOONS  
#DRONE VEHICLES  
LIGHT AIRCRAFT  
MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT

PILOTS  
0202 0502 0506  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIRCRAFT PILOTS  
AUTOMATIC PILOTS  
PILOTS (PERSONNEL)  
TEST PILOTS

PILOTS (PERSONNEL)  
0201 0502  
NT AIRCRAFT PILOTS  
TEST PILOTS  
BT FLYING PERSONNEL  
OPERATORS (PERSONNEL)  
#PERSONNEL  
RT ASTRONAUTS  
COSMONAUTS  
CREWS  
FLIGHT CREWS  
FLYING PERSONNEL  
PILOTS

#PINCH EFFECT  
1002 2501 2502  
RT PLASMA PINCH  
THETA PINCH  
RT #MAGNETIC FIELDS  
MAGNETOHYDRODYNAMICS  
PLASMA CONTROL  
RELATIVISTIC PLASMAS  
STELLARATORS

# PINEAL GLAND

THERMONUCLEAR POWER GENERATION  
THERMONUCLEAR REACTIONS  
ZETA THERMONUCLEAR REACTOR

## PINEAL GLAND

0404

BT #ANATOMY  
ENDOCRINE GLANDS  
GLANDS (ANATOMY)  
#VISCERA

RT BRAIN

## PINHOLES

1407 1412 2310

RT CASTING  
CASTINGS  
#DEPECTS  
INTERSTICES  
LEAKAGE  
POROSITY

## PINS

1503 1701  
BT #FASTENERS  
RT COUPLINGS  
HOLDERS  
LATCHES  
RIVETS  
SPIKES  
STUDS (STRUCTURAL MEMBERS)

## PINTLES

0202 1504 3203

RT PIVOTS  
RUDDERS  
SHAFTS (MACHINE ELEMENTS)

## PION BEAMS

1002 2401 2402 2403 2405

BT #BEAMS (RADIATION)  
PARTICLE BEAMS  
RT NEUTRAL BEAMS  
NEUTRON BEAMS

## PIONEER 4 LUNAR PROBE

USE PIONEER 4 SPACE PROBE

## PIONEER PROJECT

3007 3107 3108

BT #PROGRAMS  
PROJECTS  
RT LUNAR PROBES  
PIONEER SPACE PROBES  
SPACE PROBES

## PIONEER 1 SPACE PROBE

1307 3007 3107 3108

BT #INTERPLANETARY SPACECRAFT  
PIONEER SPACE PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT

RT THOR ABLE ROCKET VEHICLE

## PIONEER 2 SPACE PROBE

3108 3007

BT #INTERPLANETARY SPACECRAFT  
PIONEER SPACE PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT

## PIONEER 3 SPACE PROBE

3007 3108

BT #INTERPLANETARY SPACECRAFT  
PIONEER SPACE PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT

RT JUNO 2 LAUNCH VEHICLE

## PIONEER 4 SPACE PROBE

3007 3108

UP PIONEER 4 LUNAR PROBE  
BT #INTERPLANETARY SPACECRAFT  
PIONEER SPACE PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT

RT JUNO 2 LAUNCH VEHICLE

## PIONEER 5 SPACE PROBE

3007 3108

BT #INTERPLANETARY SPACECRAFT  
PIONEER SPACE PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT

RT THOR ABLE ROCKET VEHICLE

## PIONEER 6 SPACE PROBE

3108 3007

BT #INTERPLANETARY SPACECRAFT  
PIONEER SPACE PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT

RT DELTA LAUNCH VEHICLE

JUNO 2 LAUNCH VEHICLE

## PIONEER 7 SPACE PROBE

3108

BT #INTERPLANETARY SPACECRAFT

PIONEER SPACE PROBES

SPACE PROBES

#UNMANNED SPACECRAFT

RT DELTA LAUNCH VEHICLE

JUNO 2 LAUNCH VEHICLE

## PIONEER 8 SPACE PROBE

3108

BT #INTERPLANETARY SPACECRAFT

PIONEER SPACE PROBES

SPACE PROBES

#UNMANNED SPACECRAFT

RT JUNO 2 LAUNCH VEHICLE

PROBES

## PIONEER 9 SPACE PROBE

3007 3108

BT #INTERPLANETARY SPACECRAFT

PIONEER SPACE PROBES

SPACE PROBES

#UNMANNED SPACECRAFT

RT PROBES

## PIONEER SPACE PROBES

3007 3107 3108

RT PIONEER 1 SPACE PROBE

PIONEER 2 SPACE PROBE

PIONEER 3 SPACE PROBE

PIONEER 4 SPACE PROBE

PIONEER 5 SPACE PROBE

PIONEER 6 SPACE PROBE

PIONEER 7 SPACE PROBE

PIONEER 8 SPACE PROBE

PIONEER 9 SPACE PROBE

BT #INTERPLANETARY SPACECRAFT

SPACE PROBES

#UNMANNED SPACECRAFT

RT JUNO 2 LAUNCH VEHICLE

PIONEER PROJECT

SOLAR PROBES

## PIONS

2401 2402 2403 2405

BT BOSONS

ELEMENTARY PARTICLES

NUCLEAR PARTICLES

#PARTICLES

RT CHARGED PARTICLES

KAONS

## PIPE FLOW

1202 1504

UP KIRCHHOFF-HELMHOLTZ FLOW

BT #FLUID FLOW

RT CHANNEL FLOW

CRITICAL FLOW

GAS FLOW

LAMINAR FLOW

LIQUID FLOW

MASS FLOW

MULTIPHASE FLOW

OPEN CHANNEL FLOW

ORIFICE FLOW

PIPES (TUBES)

PRESSURE GRADIENTS

SINGLE-PHASE FLOW

STEADY FLOW

STEAM FLOW

SUBCRITICAL FLOW

SUPERCRITICAL FLOW

TURBULENT FLOW

UNIFORM FLOW

UNSTEADY FLOW

WATER FLOW

WATER HAMMER

WATER PRESSURE

## PIPE NOZZLES

1504

RT EXHAUST SYSTEMS

INLET NOZZLES

#INTAKE SYSTEMS

NOZZLE GEOMETRY

NOZZLES

#OPENINGS

OUTLETS

#TANKS (CONTAINERS)

## PIPELINES

0905 2302

RT CROSSINGS

LINES

MATERIALS HANDLING

PIPES (TUBES)

#PUMPS

SIPHONS

STEAM FLOW

STORAGE

# NASA THESAURUS (ALPHABETICAL LISTING)

STORAGE TANKS

#TRANSPORTATION

WASTE DISPOSAL

WATER HAMMER

## PIPER AIRCRAFT

0204 0207

BT LIGHT AIRCRAFT

UTILITY AIRCRAFT

RT GENERAL AVIATION AIRCRAFT

## PIPERDINE

1808

BT #HETEROCYCLIC COMPOUNDS

PYRIDINES

## PIPES (TUBES)

1202 1504

UP TUBING

RT GAS PIPES

U BENDS

CASING

CIRCULAR TUBES

DUCTS

#FLUID FLOW

HEADERS

HOSERS

HYDRAULICS

MANIFOLDS

PIPE FLOW

PIPELINES

RISERS

SIPHONS

TUBES

## PIPETTES

0501 0603

RT GLASSWARE

LABORATORY EQUIPMENT

## PIRANI GAGES

1408

BT #MEASURING INSTRUMENTS

PRESSURE GAGES

#VACUUM APPARATUS

VACUUM GAGES

RT HOT-WIRE FLOWMETERS

IONIZATION GAGES

KNUDSEN GAGES

MCLEOD GAGES

PRESSURE MEASUREMENTS

## PISTON ENGINES

1504 2801 2805

UP RECIPROCATING ENGINES

BT #ENGINES

RT A-1 AIRCRAFT

AIRCRAFT ENGINES

AUTOMOBILE ENGINES

EXTERNAL COMBUSTION ENGINES

FUEL INJECTION

INTERNAL COMBUSTION ENGINES

PISTONS

RECIPROCATION

## PISTON THEORY

1504 2308

RT COMPRESSING

FLUID DYNAMICS

PISTONS

## PISTONS

1504 2801 2805

RT MAGNETIC PISTONS

COMBUSTION CHAMBERS

ENGINE PARTS

INTERNAL COMBUSTION ENGINES

PISTON ENGINES

PISTON THEORY

PILUNGERS

RECIPROCATION

## PITCH

1805 1904 2102 3407

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UP TONE

RT #FREQUENCIES

PITCH (INCLINATION)

PITCH (MATERIAL)

## PITCH (INCLINATION)

0101 3006

UP DAMPING IN PITCH

PHUGOID OSCILLATIONS

PITCH ANGLES

BT ATTITUDE (INCLINATION)

RT ANGLES (GEOMETRY)

HEAVING

LONGITUDINAL CONTROL

LONGITUDINAL STABILITY

# NASA THESAURUS (ALPHABETICAL LISTING)

MOTION  
 PITCH  
 ROLL  
 ROTATION  
 SLOPES  
 VARIABLE PITCH PROPELLERS  
 YAW  
 PITCH (MATERIAL)  
 1503 1504  
 RT ASPHALT  
 OILS  
 PITCH  
 TARS  
 PITCH ANGLES  
 USE PITCH (INCLINATION)  
 PITCH ATTITUDE CONTROL  
 USE LONGITUDINAL CONTROL  
 PITCHING MOMENTS  
 0201 2102 2308  
 BT #MOMENTS  
 STABILITY DERIVATIVES  
 RT AERODYNAMIC COEFFICIENTS  
 LONGITUDINAL STABILITY  
 MOMENTS OF INERTIA  
 ROLLING MOMENTS  
 TORQUE  
 YAWING MOMENTS  
 PITOT STATIC TUBES  
 USE PITOT TUBES  
 SPEED INDICATORS  
 PITOT TUBES  
 0202 1202 1203 1408  
 UP PITOT STATIC TUBES  
 PRESTON TUBES  
 VELOCITY PROBES  
 RT FLOW MEASUREMENT  
 FLOWMETERS  
 PRESSURE MEASUREMENTS  
 PROTUBERANCES  
 SPEED INDICATORS  
 STATIC PRESSURE  
 TUBES  
 VELOCITY MEASUREMENT  
 VENTURI TUBES  
 PITS  
 1305 1704  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT PITS (EXCAVATIONS)  
 PITTING  
 PITS (EXCAVATIONS)  
 1305  
 RT EXCAVATION  
 MINES (EXCAVATIONS)  
 PITS  
 SUMPS  
 PITTING  
 0602 1503  
 RT CHEMICAL ATTACK  
 CHIPPING  
 CORROSION  
 CORROSION RESISTANCE  
 CORROSION TESTS  
 DEGRADATION  
 EROSION  
 ETCHING  
 METAL-WATER REACTIONS  
 PITS  
 SCORING  
 PITUITARY GLAND  
 0402 0404 0405  
 BT #ANATOMY  
 ENDOCRINE GLANDS  
 GLANDS (ANATOMY)  
 ORGANS  
 #VISCERA  
 PITUITARY HORMONES  
 0404  
 PIVOTED WING AIRCRAFT  
 USE TILT WING AIRCRAFT  
 PIVOTS  
 0202 1101 1104 1504 3203  
 UP TROCHOIDS  
 RT #BEARINGS  
 GIMBALS  
 HINGES  
 PINTLES  
 SHAFTS (MACHINE ELEMENTS)  
 SUPPORTS  
 SWIVELS

PL/1  
 0802  
 BT #LANGUAGES  
 MACHINE ORIENTED LANGUAGES  
 RT COBOL  
 COMPILERS  
 COMPUTER PROGRAMMING  
 FORTRAN  
 PLACES (FACULAE)  
 USE FACULAE  
 PLAN POSITION INDICATORS  
 0705 1002 2102 2103 2104  
 UP PPI (POSITION INDICATORS)  
 BT #AIRCRAFT INSTRUMENTS  
 #DISPLAY DEVICES  
 INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 POSITION INDICATORS  
 #RADAR EQUIPMENT  
 RADARSCOPES  
 PLANAR STRUCTURES  
 0101 1002 1504 2311 3203  
 RT FLAT LAYERS  
 FLAT PLATES  
 FLAT SURFACES  
 FLATNESS  
 STRUCTURES  
 #SURFACE PROPERTIES  
 PLANCKS CONSTANT  
 2401 2402  
 BT #CONSTANTS  
 RT BLACK BODY RADIATION  
 DE BROGLIE WAVELENGTHS  
 #ELECTROMAGNETIC RADIATION  
 NUCLEAR MAGNETIC RESONANCE  
 PHOTONS  
 QUANTUM THEORY  
 THERMAL RADIATION  
 WENTZEL-KRAMER-BRILLOUIN METHOD  
 PLANE WAVES  
 0710 2301 2310  
 RT #BEAMS (RADIATION)  
 CYLINDRICAL WAVES  
 #ELASTIC WAVES  
 NORMAL SHOCK WAVES  
 RADIATION  
 SHOCK WAVES  
 SOUND WAVES  
 SPATIAL FILTERING  
 SPHERICAL WAVES  
 TRANSVERSE WAVES  
 TRAVELING WAVES  
 WAVES  
 PLANET EPHEMERIDES  
 3002 3006  
 UP PLANETARY LONGITUDE  
 BT EPHEMERIDES  
 RT GEOCENTRIC COORDINATES  
 PLANETS  
 PLANET ORIGINS  
 USE PLANETARY EVOLUTION  
 PLANETARIUMS  
 3001 3404 3405  
 RT ASTRONOMICAL MODELS  
 #DISPLAY DEVICES  
 PLANETARY ATMOSPHERES  
 2001 2003 3001 3008 3009  
 (EXCLUDES EARTH ATMOSPHERE)  
 NT JUPITER ATMOSPHERE  
 MARS ATMOSPHERE  
 BT #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 PLANETARY ENVIRONMENTS  
 RT ABSORPTION  
 ATMOSPHERES  
 ATMOSPHERIC ATTENUATION  
 ATMOSPHERIC COMPOSITION  
 ATMOSPHERIC DENSITY  
 ATMOSPHERIC TEMPERATURE  
 #EARTH ATMOSPHERE  
 LUNAR ATMOSPHERES  
 MONGRAY ATMOSPHERES  
 PLANETARY SURFACES  
 PLANETARY TEMPERATURE  
 RADIATIVE TRANSFER  
 SATURN RINGS  
 PLANETARY BASES  
 1105 3007  
 RT EXTRATERRESTRIAL RESOURCES  
 SPACE EXPLORATION  
 #STATIONS

## PLANETARY ORBITS

PLANETARY COMPOSITION  
 1306 3003 3008 3009  
 BT #COMPOSITION (PROPERTY)  
 RT EARTH PLANETARY STRUCTURE  
 PLANETARY EVOLUTION  
 PLANETARY MASS  
 SATURN RINGS  
 SPACE EXPLORATION  
 PLANETARY ENTRY  
 USE #ATMOSPHERIC ENTRY  
 PLANETARY ENVIRONMENTS  
 1105 1301 1302 2001 3008  
 (EXCLUDES EARTH)  
 NT JUPITER ATMOSPHERE  
 MARS ATMOSPHERE  
 MARS ENVIRONMENT  
 PLANETARY ATMOSPHERES  
 BT #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 RT AEROSPACE ENVIRONMENTS  
 BIOASTRONAUTICS  
 EXOBIOLOGY  
 LIFE SUPPORT SYSTEMS  
 LUNAR ENVIRONMENT  
 PLANETARY TEMPERATURE  
 PLANETS  
 THERMAL ENVIRONMENTS  
 PLANETARY EVOLUTION  
 1306 3001 3003 3008  
 UP PLANET ORIGINS  
 BT #EVOLUTION (DEVELOPMENT)  
 RT COSMOLOGY  
 PLANETARY COMPOSITION  
 STELLAR EVOLUTION  
 PLANETARY EXPLORATION  
 USE SPACE EXPLORATION  
 PLANETARY GRAVITATION  
 1105 1309 3002 3008  
 BT GRAVITATION  
 RT ESCAPE VELOCITY  
 LUNAR GRAVITATION  
 PLANETARY MASS  
 PLANETARY LANDING  
 0203 3002 3006 3007 3110 3201  
 (EXCLUDES LANDING ON THE PLANET EARTH)  
 BT #LANDING  
 SPACECRAFT LANDING  
 RT CRASH LANDING  
 GLIDE LANDINGS  
 HORIZONTAL SPACECRAFT LANDING  
 INTERPLANETARY FLIGHT  
 LUNAR LANDING  
 MARS LANDING  
 ORBITAL MECHANICS  
 PLANETARY QUARANTINE  
 SOFT LANDING  
 WATER LANDING  
 PLANETARY LONGITUDE  
 USE PLANET EPHEMERIDES  
 PLANETARY MAGNETIC FIELDS  
 2307 3008  
 BT #MAGNETIC FIELDS  
 RT GEOMAGNETIC TAIL  
 GEOMAGNETISM  
 PLANETARY MASS  
 1304 3002  
 BT #MASS  
 RT PLANETARY COMPOSITION  
 PLANETARY GRAVITATION  
 PLANETARY MOTION  
 USE SOLAR ORBITS  
 PLANETARY NEBULAE  
 3001 3002 3008  
 BT #CELESTIAL BODIES  
 NEBULAE  
 PLANETARY ORBITS  
 1904 3001 3002 3008 3006  
 BT #ORBITS  
 RT CIRCULAR ORBITS  
 EARTH ORBITS  
 ELLIPTICAL ORBITS  
 EQUATORIAL ORBITS  
 INTERPLANETARY TRAJECTORIES  
 PARKING ORBITS  
 POLAR ORBITS  
 SATELLITE ORBITS  
 SPACECRAFT ORBITS  
 SWINGBY TECHNIQUE  
 TRANSFER ORBITS  
 TWENTY-FOUR HOUR ORBITS  
 VIKING ORBITER SPACECRAFT

# PLANETARY QUARANTINE

PLANETARY QUARANTINE  
0404 0504  
RT PLANETARY LANDING  
SPACECRAFT STERILIZATION  
PLANETARY RADIATION  
2903 3008  
(EXCLUDES TERRESTRIAL RADIATION)  
BT \*ELECTROMAGNETIC RADIATION  
\*EXTRATERRESTRIAL RADIATION  
RT ALBEDO  
DECIMETER WAVES  
INFRARED RADIATION  
LIGHT (VISIBLE RADIATION)  
RADIO WAVES  
TERRESTRIAL RADIATION  
THERMAL RADIATION  
VLF EMISSION RECORDERS  
PLANETARY ROTATION  
3001 3008  
BT ROTATION  
RT ASTROPHYSICS  
PLANETOLOGY  
\*ROTATING BODIES  
STELLAR ROTATION  
PLANETARY SPACE FLIGHT  
USE INTERPLANETARY FLIGHT  
PLANETARY SPACECRAFT  
USE \*INTERPLANETARY SPACECRAFT  
PLANETARY SURFACES  
1303 1304 1305 1401 3006 3007 3008  
NT MARS SURFACE  
RT EARTH SURFACE  
JUPITER RED SPOT  
PLANETARY ATMOSPHERES  
PLANETARY TEMPERATURE  
SATURN RINGS  
\*SURFACE PROPERTIES  
SURFACES  
TOPOGRAPHY  
PLANETARY TEMPERATURE  
1408 2001 2003 3008  
BT \*TEMPERATURE  
RT ATMOSPHERIC TEMPERATURE  
PLANETARY ATMOSPHERES  
PLANETARY ENVIRONMENTS  
PLANETARY SURFACES  
SATURN RINGS  
PLANETOCENTRIC COORDINATES  
1105 1305 1308 1310 1901 3009  
NT GEOCENTRIC COORDINATES  
BT \*COORDINATES  
RT ASTRONOMICAL COORDINATES  
CELESTIAL REFERENCE SYSTEMS  
PLANETOLOGY  
3007 3008  
RT PLANETARY ROTATION  
SATURN RINGS  
UMBRAE  
PLANETS  
3008  
NT EARTH (PLANET)  
JUPITER (PLANET)  
MARS (PLANET)  
MERCURY (PLANET)  
NEPTUNE (PLANET)  
PLUTO (PLANET)  
SATURN (PLANET)  
URANUS (PLANET)  
VENUS (PLANET)  
BT \*CELESTIAL BODIES  
RT CELESTIAL MECHANICS  
ECLIPTIC  
JUPITER RED SPOT  
NATURAL SATELLITES  
PLANET EPHEMERIDES  
PLANETARY ENVIRONMENTS  
SATURN RINGS  
SOLAR SYSTEM  
SUN  
\*PLANFORMS  
1401  
NT ARROW WINGS  
CARET WINGS  
DELTA WINGS  
INFINITE SPAN WINGS  
RECTANGULAR PANELS  
RECTANGULAR PLANFORMS  
RECTANGULAR PLATES  
RECTANGULAR WINGS  
SWEEP FORWARD WINGS  
SWEEPBACK TAIL SURFACES  
SWEEPBACK WINGS

TRAPEZOIDAL TAIL SURFACES  
TRAPEZOIDAL WINGS  
VARIABLE SWEEP WINGS  
WING PLANFORMS  
RT BODIES  
CROSS SECTIONS  
\*GEOMETRY  
PROFILES  
SHAPES  
SURFACE GEOMETRY  
PLANIMETRY  
USE AREA  
DIMENSIONAL MEASUREMENT  
PLANING  
1504  
(EXCLUDES MOTION INVOLVING DYNAMIC  
SUPPORTING FORCES)  
BT CUTTING  
RT GRINDING (MATERIAL REMOVAL)  
\*MACHINING  
METAL CUTTING  
MILLING (MACHINING)  
SLICING  
SMOOTHING  
PLANISPHERES  
1308 1902 2103  
BT ASTRONOMICAL MAPS  
\*MAPS  
RT ASTRONOMICAL COORDINATES  
CELESTIAL SPHERE  
CONSTELLATIONS  
POLAR COORDINATES  
PLANKTON  
0402 0404 0407 0409  
RT ALGAE  
\*ANIMALS  
\*PLANTS (BOTANY)  
THERMAL POLLUTION  
PLANNING  
3406  
RT AIRPORT PLANNING  
MISSION PLANNING  
PRODUCTION PLANNING  
PROJECT PLANNING  
URBAN PLANNING  
RT BUDGETING  
CRITICAL PATH METHOD  
DESIGN  
\*FORECASTING  
MANAGEMENT PLANNING  
MILLING (MACHINING)  
MISSIONS  
\*OPTIMIZATION  
PRODUCTION ENGINEERING  
PROGRESS  
SEQUENCING  
SLICING  
URBAN DEVELOPMENT  
PLANOTRONS  
2309 2402  
UF AMPLITRONS (TRADEMARK)  
RT CAMERA TUBES  
ELECTRIC ARCS  
MAGNETRONS  
PLANS  
3406 3409  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DRAWINGS  
FLIGHT PLANS  
LAYOUTS  
MISSION PLANNING  
URBAN DEVELOPMENT  
PLANT ROOTS  
0404 0409  
RT BULBS  
\*PLANTS (BOTANY)  
ROOTS  
PLANTAR TISSUES  
0404  
BT TISSUES (BIOLOGY)  
\*PLANTS (BOTANY)  
0404 0409  
UF FLORA  
BT ACTINOMYCETES  
ALGAE  
ANABAENA  
ASPERGILLUS  
AUTOTROPHS  
AZOTOBACTER  
BACILLUS

# NASA THESAURUS (ALPHABETICAL LISTING)

BACTERIA  
BLUE GREEN ALGAE  
BRYOPHYTES  
CHLORELLA  
CLOSTRIDIUM BOTULINUM  
COCCOMYCES  
DUNALIELLA  
ESCHERICHIA  
EUGLENA  
FOLIAGE  
FUNGI  
GIBBERELLINS  
GRASSES  
HYDROGENOMONAS  
KLEBSIELLA  
LEAVES  
LICHENS  
MICROCYSTIS  
MICROSPORES  
NEUROSPORA  
NIGELLA  
NITROBACTER  
NOSTOC  
PARASITES  
PETALS  
PHOTOPHILIC PLANTS  
PORPHYRA  
PSEUDOMONAS  
REEDS (PLANTS)  
RHIZOPUS  
SACCHAROMYCETES  
SALMONELLA  
SAPROPHYTES  
SARCINA  
SCENEDESNUS  
SERRATIA  
SPORES  
STAPHYLOCOCCUS  
STEAROTHERMOPHILUS  
STREPTOCOCCUS  
STREPTOMYCETES  
THERMOPHILIC PLANTS  
TOBACCO  
TRADESCANTIA  
TRAGACANTH  
TREES (PLANTS)  
YEAST  
RT AGRICULTURE  
ANGIOSPERMS  
\*ANIMALS  
BIOGEOCHEMISTRY  
BOTANY  
CHLOROPHYLLS  
CORTEXES (BOTANY)  
CROP GROWTH  
CROP VIGOR  
DEPOLIANTS  
EARTH RESOURCES  
\*ENVIRONMENTS  
FORESTS  
GEOBOTANY  
GEOTROPISM  
HALOPHILES  
HETEROTROPHS  
HYDROPONICS  
LACUNAS  
\*MICROORGANISMS  
ORGANISMS  
PHOTOTROPISM  
PLANKTON  
PLANT ROOTS  
POLLEN  
POTATOES  
SEEDS  
STEMS  
UTRICLE  
VEGETATION  
VIABILITY  
WOOD  
PLANTS (INDUSTRIES)  
USE INDUSTRIAL PLANTS  
PLASMA ACCELERATION  
2502  
UF MAGNETOHYDRODYNAMIC ACCELERATION  
BT ACCELERATION (PHYSICS)  
\*RATES (PER TIME)  
RT PARTICLE ACCELERATION  
PLASMA PHYSICS  
PLASMA PROPULSION  
\*PLASMAS (PHYSICS)  
WAVE PROPAGATION

# NASA THESAURUS (ALPHABETICAL LISTING)

**PLASMA ACCELERATORS**  
0905 2501 2502  
**RT** ALPHA PLASMA DEVICES  
COAXIAL PLASMA ACCELERATORS  
CYCLOPS PLASMA ACCELERATOR  
**RT** ACCELERATORS  
ION INJECTION  
MAGNETIC ANNULAR ARC  
MAGNETOHYDRODYNAMIC GENERATORS  
PLASMA GUNS  
PLASMA JETS  
**PLASMA ARC SPRAYING**  
**USE** ARC SPRAYING  
**PLASMA ARC WELDING**  
1507 1704 2501  
**BT** ARC WELDING  
ELECTRIC WELDING  
FUSION WELDING  
#WELDING  
**PLASMA ARCS**  
**USE** PLASMA JETS  
**PLASMA CHEMISTRY**  
0604 2502  
**RT** CHEMISTRY  
NUCLEAR CHEMISTRY  
PLASMA COMPOSITION  
PLASMA JETS  
PLASMA PHYSICS  
#PLASMAS (PHYSICS)  
**PLASMA CLOUDS**  
2502 2902  
**BT** #CLOUDS  
**RT** CLOUDS (METEOROLOGY)  
COSMIC PLASMA  
GEOMAGNETIC HOLLOW  
HYDROGEN CLOUDS  
INTERPLANETARY MEDIUM  
ION SHEATHS  
MAGNETOSPHERE  
#PARTICLES  
PLASMA LAYERS  
PLASMA SLABS  
PLASMAPAUSE  
**PLASMA COMPOSITION**  
2402 2502  
**BT** #COMPOSITION (PROPERTY)  
**RT** ATOM CONCENTRATION  
GAS COMPOSITION  
ION MOTION  
IONOSPHERIC COMPOSITION  
NONEQUILIBRIUM PLASMAS  
NONUNIFORM PLASMAS  
PLASMA CHEMISTRY  
PLASMA CONDUCTIVITY  
PLASMA DIAGNOSTICS  
PLASMA SPECTRA  
THOMAS-FERMI MODEL  
**PLASMA CONDUCTIVITY**  
1002 2302 2402 2502  
**BT** #ELECTRICAL PROPERTIES  
ELECTRICAL RESISTIVITY  
#TRANSPORT PROPERTIES  
**RT** CONDUCTIVITY  
IONOSPHERIC CONDUCTIVITY  
MAGNETOHYDRODYNAMIC STABILITY  
PLASMA COMPOSITION  
PLASMA PHYSICS  
**PLASMA CONFINEMENT**  
**USE** PLASMA CONTROL  
**PLASMA CONTROL**  
2502  
**UF** MAGNETIC TRAPS  
PLASMA CONFINEMENT  
**RT** CONFINEMENT  
CONTROL  
CROSSED FIELD GUNS  
CROSSED FIELDS  
ELECTRON-ION RECOMBINATION  
HELICAL INDUCERS  
MAGNETIC ANNULAR ARC  
MAGNETIC MIRRORS  
MAGNETICALLY TRAPPED PARTICLES  
#PINCH EFFECT  
PLASMA CYLINDERS  
PLASMA PHYSICS  
PLASMA PINCH  
PLASMA SLABS  
TOROIDAL PLASMAS  
TRANSFORMERS  
TRAP PROGRAM  
TRAPPED MAGNETIC FIELDS

**PLASMA CYLINDERS**  
0710 2402 2502  
**RT** CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL SHELLS  
PLASMA CONTROL  
PLASMA JETS  
PLASMA PINCH  
PLASMAGUIDES  
**PLASMA DECAY**  
2307 2502  
**BT** #DECAY  
**RT** AFTERGLOWS  
ELECTROMAGNETIC WAVE TRANSMISSION  
MAGNETOHYDRODYNAMIC STABILITY  
PLASMA DIFFUSION  
PLASMA JETS  
PLASMA LIFETIME  
**PLASMA DENSITY**  
2502  
**BT** #DENSITY (NUMBER/VOLUME)  
PARTICLE DENSITY (CONCENTRATION)  
**RT** ATMOSPHERIC DENSITY  
ATOM CONCENTRATION  
ELECTRON DENSITY (CONCENTRATION)  
ION DENSITY (CONCENTRATION)  
MAGNETOSPHERIC ELECTRON DENSITY  
MAGNETOSPHERIC ION DENSITY  
MAGNETOSPHERIC PROTON DENSITY  
PLASMA DIAGNOSTICS  
PLASMA FLUX MEASUREMENTS  
PROTON DENSITY (CONCENTRATION)  
SPACE DENSITY  
**PLASMA DIAGNOSTICS**  
2502  
**RT** FABRY-PEROT INTERFEROMETERS  
MICROWAVE INTERFEROMETERS  
PLASMA COMPOSITION  
PLASMA DENSITY  
PLASMA FLUX MEASUREMENTS  
PLASMA FREQUENCIES  
PLASMA LAYERS  
PLASMA LIFETIME  
PLASMA POTENTIALS  
PLASMA PROBES  
PLASMA SPECTRA  
PLASMA TEMPERATURE  
RESONANCE PROBES  
**PLASMA DIFFUSION**  
2403 2502  
**UF** PLASMA DISPERSION  
**BT** #DIFFUSION  
**RT** AMBIPOLAR DIFFUSION  
COLLOIDAL GENERATORS  
DIFFUSION WAVES  
ELECTRON DIFFUSION  
GASEOUS SELF-DIFFUSION  
ION MOTION  
IONIC DIFFUSION  
PLASMA DECAY  
PLASMA DYNAMICS  
PLASMA-PARTICLE INTERACTIONS  
PLASMA SPECTRA  
PLASMA TURBULENCE  
**PLASMA DIODES**  
0905 1002  
**BT** #DIODES  
**RT** CESIUM DIODES  
PLASMA ELECTRODES  
**PLASMA DISCHARGES**  
**USE** PLASMA JETS  
**PLASMA DISPERSION**  
**USE** PLASMA DIFFUSION  
**PLASMA DYNAMICS**  
0710 2402 2502  
**UF** SHOCKWAVE EFFECT  
**RT** DYNAMICS  
HYDRODYNAMIC EQUATIONS  
MAGNETOHYDRODYNAMICS  
PLASMA DIFFUSION  
PLASMA FREQUENCIES  
PLASMA OSCILLATIONS  
PLASMA PHYSICS  
PLASMA WAVES  
**PLASMA ELECTRODES**  
1002 2501 2502  
**BT** #ELECTRODES  
**RT** HOT-WIRE FLOWMETERS  
PLASMA DIODES  
#PLASMA GENERATORS  
PLASMA PROBES  
PLASMAGUIDES

# PLASMA HEATING

**PLASMATRONS**  
**PLASMA-ELECTROMAGNETIC INTERACTION**  
2403 2502  
**BT** ELECTROMAGNETIC INTERACTIONS  
PLASMA INTERACTIONS  
**RT** INTERACTIONS  
**PLASMA ENGINES**  
1504 2501  
**UF** PLASMA ROCKETS  
**RT** TWO STAGE PLASMA ENGINES  
**BT** #ENGINES  
#PLASMA POWER SOURCES  
**RT** ARC JET ENGINES  
COAXIAL PLASMA ACCELERATORS  
HIGH TEMPERATURE PROPELLANTS  
ION ENGINES  
#PLASMA GENERATORS  
PLASMA PROPULSION  
PULSED JET ENGINES  
RESISTOJET ENGINES  
**PLASMA FLOW**  
**USE** MAGNETOHYDRODYNAMIC FLOW  
**PLASMA FLUX MEASUREMENTS**  
0710 2502  
**RT** INTERFEROMETRY  
MAGNETOHYDRODYNAMIC FLOW  
MICROWAVE PLASMA PROBES  
PLASMA DENSITY  
PLASMA DIAGNOSTICS  
PLASMA PROBES  
ROTATING PLASMAS  
**PLASMA FREQUENCIES**  
1002 2403 2502  
**BT** #FREQUENCIES  
**RT** ELECTRON DENSITY (CONCENTRATION)  
ELECTROSTATIC PROBES  
FREE ELECTRONS  
PLASMA DIAGNOSTICS  
PLASMA DYNAMICS  
PLASMONS  
**PLASMA GENERATION**  
**USE** #PLASMA GENERATORS  
#PLASMA GENERATORS  
1002 1203 1504 2501 2502 2702  
(EXCLUDES MAGNETOHYDRODYNAMIC OR  
THERMONUCLEAR GENERATORS OF ELECTRIC  
POWER)  
**UF** PLASMA GENERATION  
**RT** DUOPLASMATRONS  
PLASMA GUNS  
PLASMATRONS  
SCYLLA  
VON ARDENNE DUOPLASMATRONS  
**RT** ARC CHAMBERS  
ARC GENERATORS  
CLOSED CYCLES  
COLLOIDAL GENERATORS  
ELECTRIC ARCS  
EXPLODING WIRES  
GENERATORS  
HALL GENERATORS  
HIGH TEMPERATURE RESEARCH  
ION INJECTION  
#ION SOURCES  
MAGNETOHYDRODYNAMIC GENERATORS  
PENNING DISCHARGE  
PLASMA ELECTRODES  
PLASMA ENGINES  
PLASMA JET WIND TUNNELS  
PLASMA JETS  
PULSE GENERATORS  
THERMAL PLASMAS  
THERMONUCLEAR POWER GENERATION  
WIND TUNNEL DRIVES  
**PLASMA GUNS**  
1002 1203 2501 2702  
**BT** #PLASMA GENERATORS  
**RT** COAXIAL PLASMA ACCELERATORS  
CROSSED FIELD GUNS  
ELECTRON GUNS  
GUNS  
MAGNETIC LENSES  
PLASMA ACCELERATORS  
PLASMA JETS  
PLASMATRONS  
**PLASMA HEATING**  
2502  
**BT** #HEATING  
**RT** ARC HEATING  
ENERGY TRANSFER  
GAS HEATING  
INDUCTION HEATING

# PLASMA INSTABILITY

IONOSPHERIC HEATING  
KINETIC HEATING  
MAGNETIC PUMPING  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
PLASMA TEMPERATURE  
RADIO FREQUENCY HEATING  
SHOCK HEATING  
PLASMA INSTABILITY  
USE MAGNETOHYDRODYNAMIC STABILITY  
PLASMA INTERACTIONS  
0710 2402 2502  
NT PLASMA-ELECTROMAGNETIC INTERACTION  
BT ELECTROMAGNETIC INTERACTIONS  
INTERACTIONS  
PLASMA-PARTICLE INTERACTIONS  
PLASMA RESONANCE  
WAVE INTERACTION  
PLASMA JET SYNTHESIS  
2501 2502  
RT #CHEMICAL REACTIONS  
PLASMA-PARTICLE INTERACTIONS  
SYNTHESIS  
PLASMA JET WIND TUNNELS  
1110  
UP HYDRODYNAMIC TUNNELS  
BT HYPERVELOCITY WIND TUNNELS  
#TEST FACILITIES  
WIND TUNNELS  
RT #PLASMA GENERATORS  
PLASMA JETS  
2502  
UP PLASMA ARCS  
PLASMA DISCHARGES  
RT ARCS  
CROSSED FIELD GUNS  
ELECTRON BEAMS  
ELECTRON BOMBARDMENT  
FLUID JETS  
ION INJECTION  
JETS  
LOW DENSITY WIND TUNNELS  
MAGNETIC LENSES  
PLASMA ACCELERATORS  
PLASMA CHEMISTRY  
PLASMA CYLINDERS  
PLASMA DECAY  
#PLASMA GENERATORS  
PLASMA GUNS  
PLASMA PROPULSION  
PLASMATRONS  
PULSE DIFFRACTION  
RELATIVISTIC PLASMAS  
TOROIDAL DISCHARGE  
VAPOR JETS  
PLASMA LAYERS  
2502  
BT ATMOSPHERIC STRATIFICATION  
LAYERS  
PLASMA CLOUDS  
PLASMA DIAGNOSTICS  
PLASMA PROBES  
PLASMA SLABS  
PLASMA WAVES  
TRANSITION LAYERS  
PLASMA LIFETIME  
2501 2502  
BT LIFE (DURABILITY)  
RT MAGNETOHYDRODYNAMIC STABILITY  
PLASMA DECAY  
PLASMA DIAGNOSTICS  
PLASMA LOSS  
PLASMA LOSS  
2501 2502  
RT LOSSES  
MAGNETOHYDRODYNAMIC STABILITY  
PLASMA LIFETIME  
PLASMA OSCILLATIONS  
0710 1002 2402 2502  
UP ION OSCILLATION  
PLASMA PERTURBATION  
BT #OSCILLATIONS  
RT ELECTRON OSCILLATIONS  
NONUNIFORM PLASMAS  
PLASMA DYNAMICS  
PLASMA RESONANCE  
PLASMA TURBULENCE  
PLASMAPAUSE  
PLASMONS  
PLASMA-PARTICLE INTERACTIONS  
2403 2502  
RT BEAM PLASMA AMPLIFIERS  
CHARGE EXCHANGE

ELECTROMAGNETIC INTERACTIONS  
ELECTRON PHONON INTERACTIONS  
ELECTRON PLASMA  
INTERACTIONS  
PARTICLE THEORY  
PLASMA DIFFUSION  
PLASMA INTERACTIONS  
PLASMA JET SYNTHESIS  
PLASMA PHYSICS  
PLASMA RESONANCE  
#PLASMAS (PHYSICS)  
RELATIVISTIC PLASMAS  
PERTURBATION  
USE PLASMA OSCILLATIONS  
PLASMA PHYSICS  
2307 2402 2501 2502  
UP PLASMA THEORY  
BT #NUCLEAR PHYSICS  
BT ALPHA PLASMA DEVICES  
BBGKY HIERARCHY  
CONTROLLED FUSION  
HALL ACCELERATORS  
LIOUVILLE EQUATIONS  
MAGNETOHYDRODYNAMICS  
MAGNETOHYDROSTATICS  
#NUCLEAR PHYSICS  
PHYSICS  
PLASMA ACCELERATION  
PLASMA CHEMISTRY  
PLASMA CONDUCTIVITY  
PLASMA CONTROL  
PLASMA DYNAMICS  
PLASMA-PARTICLE INTERACTIONS  
PLASMA POTENTIALS  
PLASMA RADIATION  
PLASMA TEMPERATURE  
PLASMAPAUSE  
#PLASMAS (PHYSICS)  
#THEORETICAL PHYSICS  
THERMODYNAMICS  
PLASMA PINCH  
2402 2502  
BT THETA PINCH  
NT #PINCH EFFECT  
RT MAGNETOHYDRODYNAMIC STABILITY  
PLASMA CONTROL  
PLASMA CYLINDERS  
Q DEVICES  
PLASMA POTENTIALS  
1203 2502  
BT #POTENTIAL ENERGY  
RT DEBYE-HUCKEL THEORY  
MAGNETOHYDRODYNAMIC STABILITY  
NONEQUILIBRIUM PLASMAS  
PLASMA DIAGNOSTICS  
PLASMA PHYSICS  
PLASMA TEMPERATURE  
POTENTIAL  
#PLASMA POWER SOURCES  
1002 1203 2402 2501  
NT PLASMA ENGINES  
TWO STAGE PLASMA ENGINES  
BT ELECTRIC PROPULSION  
ENERGY SOURCES  
POWER SUPPLIES  
THERMIONIC CONVERTERS  
PLASMA PROBES  
2402 2502  
NT ELECTROSTATIC PROBES  
BT #MEASURING INSTRUMENTS  
RT ION SHEATHS  
PLASMA DIAGNOSTICS  
PLASMA ELECTRODES  
PLASMA FLUX MEASUREMENTS  
PLASMA LAYERS  
PLASMA GUIDES  
RADIO FREQUENCY IMPEDANCE PROBES  
PLASMA PROPULSION  
1203 2307 2501  
BT ELECTRIC PROPULSION  
LOW THRUST PROPULSION  
#PROPULSION  
SPACECRAFT PROPULSION  
DUOPLASMATRONS  
ELECTROMAGNETIC PROPULSION  
ELECTROSTATIC PROPULSION  
GASEOUS FISSION REACTORS  
ION PROPULSION  
MAGNETIC ANNULAR ARC  
MAGNETOHYDRODYNAMICS  
NUCLEAR ELECTRIC PROPULSION  
PLASMA ACCELERATION

# NASA THESAURUS (ALPHABETICAL LISTING)

PLASMA ENGINES  
PLASMA JETS  
#PLASMAS (PHYSICS)  
PLASMATRONS  
VON ARDENNE DUOPLASMATRONS  
PLASMA RADIATION  
2402 2502  
BT ELECTRON RADIATION  
FLUORESCENCE  
GLOW DISCHARGES  
ION CYCLOTRON RADIATION  
LUMINESCENCE  
NONEQUILIBRIUM PLASMAS  
OPTICAL RESONANCE  
PHOSPHORESCENCE  
PLASMA PHYSICS  
PLASMA RESONANCE  
PLASMA SPECTRA  
PLASMA TEMPERATURE  
#PLASMAS (PHYSICS)  
#POLARIZED RADIATION  
RADIATION  
RELATIVISTIC PLASMAS  
PLASMA RESONANCE  
2307 2502  
BT #RESONANCE  
RT CYCLOTRON RESONANCE  
ELECTROMAGNETIC INTERACTIONS  
PLASMA INTERACTIONS  
PLASMA OSCILLATIONS  
PLASMA-PARTICLE INTERACTIONS  
PLASMA RADIATION  
RESONANCE PROBES  
PLASMA RINGS  
USE TOROIDAL PLASMAS  
PLASMA ROCKETS  
USE PLASMA ENGINES  
PLASMA SHEATHS  
0205 0705 1203 2307 2402 2502  
BT SHEATHS  
RT BLACKOUT (PROPAGATION)  
ION SHEATHS  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
METALLIC PLASMAS  
#MISSILES  
NONEQUILIBRIUM PLASMAS  
REENTRY COMMUNICATION  
REENTRY EFFECTS  
REENTRY PHYSICS  
PLASMA SLABS  
2502  
BT MAGNETOHYDRODYNAMIC STABILITY  
PLASMA CLOUDS  
PLASMA CONTROL  
PLASMA LAYERS  
PLASMA SOUND WAVES  
USE MAGNETOHYDRODYNAMIC WAVES  
PLASMA WAVES  
PLASMA SPECTRA  
1411 2502  
BT #SPECTRA  
BT EMISSION SPECTRA  
ENERGY SPECTRA  
OPTICAL RESONANCE  
PLASMA COMPOSITION  
PLASMA DIAGNOSTICS  
PLASMA DIFFUSION  
PLASMA RADIATION  
RADIATION SPECTRA  
PLASMA SPRAYING  
1801 1802 2501  
UP PLASMA ARC SPRAYING  
BT SPRAYING  
RT COATING  
#COATINGS  
PLANE SPRAYING  
METAL MATRIX COMPOSITES  
SPRAYED COATINGS  
PLASMA STABILITY  
USE MAGNETOHYDRODYNAMIC STABILITY  
PLASMA TEMPERATURE  
1408 2502  
BT #TEMPERATURE  
RT ION TEMPERATURE  
MAGNETOHYDRODYNAMIC STABILITY  
PLASMA DIAGNOSTICS  
PLASMA HEATING  
PLASMA PHYSICS  
PLASMA POTENTIALS  
PLASMA RADIATION  
THERMAL PLASMAS



# NASA THESAURUS (ALPHABETICAL LISTING)

**PLASMA THEORY**  
 USE PLASMA PHYSICS  
**PLASMA TURBULENCE**  
 1203 2502 3304  
 BT MAGNETOHYDRODYNAMIC TURBULENCE  
 #TURBULENCE  
 RT MAGNETOHYDRODYNAMIC FLOW  
 MAGNETOHYDRODYNAMIC STABILITY  
 PLASMA DIFFUSION  
 PLASMA OSCILLATIONS  
**PLASMA WAVES**  
 0705 0710 1002 2402 2403 2502  
 UP PLASMA SOUND WAVES  
 NT ELECTROSTATIC WAVES  
 BT #ELASTIC WAVES  
 MAGNETOHYDRODYNAMIC WAVES  
 RT DIFFUSION WAVES  
 ELECTROACOUSTIC WAVES  
 ELECTRON PLASMA  
 ION CYCLOTRON RADIATION  
 IONIC WAVES  
 MAGNETOACOUSTIC WAVES  
 MAGNETOELASTIC WAVES  
 NONUNIFORM PLASMAS  
 PLASMA DYNAMICS  
 PLASMA LAYERS  
 #PLASMAS (PHYSICS)  
 SHOCK WAVES  
**PLASMA GUIDES**  
 0710 2402 2502  
 BT COMMUNICATION CABLES  
 #TRANSMISSION LINES  
 WAVEGUIDES  
 RT BEAM WAVEGUIDES  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 MICROWAVE PLASMA PROBES  
 PLASMA CYLINDERS  
 PLASMA ELECTRODES  
 PLASMA PROBES  
 WAVE PROPAGATION  
**PLASMAPAUSE**  
 3001 1302 3003 3009 1307  
 RT COSMIC PLASMA  
 MAGNETOSPHERE  
 PLASMA CLOUDS  
 PLASMA OSCILLATIONS  
 PLASMA PHYSICS  
 #PLASMAS (PHYSICS)  
 SOLAR WIND  
**#PLASMAS (PHYSICS)**  
 2501 2502  
 UP ELECTROSTATIC PLASMA  
 IONIZED PLASMAS  
 MAGNETOIONIC PLASMA  
 MAGNETOPLASMAS  
 PLASMOIDS  
 NT ARGON PLASMA  
 CESIUM PLASMA  
 COLD PLASMAS  
 COLLISIONLESS PLASMAS  
 COSMIC PLASMA  
 DEUTERIUM PLASMA  
 ELECTRON PLASMA  
 HELIUM PLASMA  
 HIGH TEMPERATURE PLASMAS  
 HYDROGEN PLASMA  
 METALLIC PLASMAS  
 MICROPLASMAS  
 NITROGEN PLASMA  
 NONEQUILIBRIUM PLASMAS  
 NONUNIFORM PLASMAS  
 RAREFIED PLASMAS  
 RELATIVISTIC PLASMAS  
 ROTATING PLASMAS  
 STELLAR WINDS  
 THERMAL PLASMAS  
 RT BEAM PLASMA AMPLIFIERS  
 BLACKOUT (PROPAGATION)  
 COMBUSTION PHYSICS  
 CORE FLOW  
 DEBYE LENGTH  
 DEUTERON IRRADIATION  
 DEUTERONS  
 ELECTRIC ARCS  
 ELECTRON ENERGY  
 #GASES  
 #HIGH TEMPERATURE FLUIDS  
 IONIZED GASES  
 #IONS  
 LIOUVILLE EQUATIONS  
 LOW DENSITY RESEARCH  
 MAGNETOHYDRODYNAMICS

MAGNETOIONICS  
 ONSAGER PHENOMENOLOGICAL  
 COEFFICIENT  
 #PARTICLES  
 PLASMA ACCELERATION  
 PLASMA CHEMISTRY  
 PLASMA-PARTICLE INTERACTIONS  
 PLASMA PHYSICS  
 PLASMA PROPULSION  
 PLASMA RADIATION  
 PLASMA WAVES  
 PLASMAPAUSE  
 RADIATION BELTS  
 RAREFIED GAS DYNAMICS  
 SCILLA  
 SOLAR PHYSICS  
 SPACE CHARGE  
 STELLAR MAGNETIC FIELDS  
 THERMAL DISSOCIATION  
 THERMODYNAMICS  
 THERMONUCLEAR REACTIONS  
**PLASMATRONS**  
 0905 1203 2501  
 BT DUOPLASMATRONS  
 VON ARDENNE DUOPLASMATRONS  
 RT #ION SOURCES  
 #PLASMA GENERATORS  
 PLASMA ELECTRODES  
 PLASMA GUNS  
 PLASMA JETS  
 PLASMA PROPULSION  
**PLASMOIDS**  
 USE #PLASMAS (PHYSICS)  
**PLASMOLYSIS**  
 0404 0406  
 RT #CELLS (BIOLOGY)  
 CYTOLOGY  
 DEHYDRATION  
**PLASMONS**  
 1002 2403 2502  
 (EXCLUDES ORGANIC CYTOPLASMIC  
 CONDITIONS)  
 BT #ELEMENTARY EXCITATIONS  
 RT ELECTRON GAS  
 EXCITONS  
 MAGNETOHYDRODYNAMIC STABILITY  
 MAGNONS  
 PHONONS  
 PLASMA FREQUENCIES  
 PLASMA OSCILLATIONS  
 POLARONS  
**PLASTERS**  
 1802 1805  
 NT GYPSUM  
 PARAPLASTS  
 RT CASTS  
 GROUT  
 MOLDING MATERIALS  
 MORTARS (MATERIAL)  
 PASTES  
**PLASTIC AIRCRAFT STRUCTURES**  
 0102 0202 1809  
 BT AIRCRAFT STRUCTURES  
 RT #PLASTICS  
**PLASTIC ANISOTROPY**  
 1704 1809 2603  
 NT ELASTIC ANISOTROPY  
 BT #ANISOTROPY  
 RT VISCOPLASTICITY  
**PLASTIC COATINGS**  
 1702 1802 1809  
 BT #COATINGS  
 RT ANTIRADAR COATINGS  
 ENCAPSULATING  
 POLYMERIC FILMS  
 PROTECTIVE COATINGS  
 SPRAYED COATINGS  
**PLASTIC DEFORMATION**  
 1108 1703 2311 3204  
 UP LUDER BANDS  
 PLASTIC YIELDING  
 STRAIN SOFTENING  
 BT #DEFORMATION  
 RT BANDS  
 BENDING  
 CREEP PROPERTIES  
 CREEP TESTS  
 ELASTIC DEFORMATION  
 ELONGATION  
 PLASTIC FLOW  
 PLASTIC PROPERTIES  
 SAINT VENANT PRINCIPLE

# PLASTICIZERS

SHEAR CREEP  
 SLIP  
 STRESS PROPAGATION  
 STRESS RELAXATION  
 STRETCHING  
 STRUCTURAL STRAIN  
 TEMPERATURE INVERSIONS  
 TENSILE CREEP  
 TENSILE DEFORMATION  
 WARPAGE  
 YIELD STRENGTH  
**PLASTIC FILMS**  
 USE POLYMERIC FILMS  
**PLASTIC FLOW**  
 1809 2603  
 UP VISOPLASTICITY  
 RT TRESCA FLOW  
 BT #FLUID FLOW  
 RT CREEP PROPERTIES  
 FLOW  
 INTERNAL FRICTION  
 PLASTIC DEFORMATION  
 PLASTIC PROPERTIES  
 RHEOLOGY  
 SHEAR FLOW  
 STEADY STATE CREEP  
 STRESS RELAXATION  
 VISCOELASTICITY  
 VISCOPLASTICITY  
**PLASTIC MATERIALS**  
 USE #PLASTICS  
**PLASTIC MEMORY**  
 0604 2603  
 RT PLASTIC PROPERTIES  
 STRESS RELAXATION  
**PLASTIC PROPELLANTS**  
 1808 1809 2702 2808 2809  
 BT #PROPELLANTS  
 SOLID PROPELLANTS  
 RT CHEMICAL PULS  
 COMPOSITE PROPELLANTS  
 EXPLOSIVES  
 GELLED PROPELLANTS  
 MONOPROPELLANTS  
 PLASTICIZERS  
 POLYBUTADIENE TETRANITRAMINE  
 PYROTECHNICS  
**PLASTIC PROPERTIES**  
 1809 2603 3202 3204  
 UP PLASTICITY  
 NT ELASTOPLASTICITY  
 PHOTOPLASTICITY  
 THERMOPLASTICITY  
 VISCOPLASTICITY  
 YIELD POINT  
 BT #MECHANICAL PROPERTIES  
 RT COHESION  
 COLD FLOW TESTS  
 DUCTILITY  
 ELASTIC PROPERTIES  
 FATIGUE (MATERIALS)  
 FLEXIBILITY  
 HARDNESS  
 INFLUENCE COEFFICIENT  
 METHOD OF CHARACTERISTICS  
 PLASTIC DEFORMATION  
 PLASTIC FLOW  
 PLASTIC MEMORY  
 RHEOLOGY  
 SEMISOLIDS  
 STRESS RELAXATION  
 STRESS TENSORS  
 STRUCTURAL STABILITY  
**PLASTIC TAPES**  
 0701 0802 1809  
 RT ADHESIVES  
 MAGNETIC TAPES  
 TAPES  
**PLASTIC YIELDING**  
 USE PLASTIC DEFORMATION  
**PLASTICITY**  
 USE PLASTIC PROPERTIES  
**PLASTICIZERS**  
 1808 1809 1810  
 UP CASTING SOLVENTS  
 ELASTICIZERS  
 BT #ADDITIVES  
 RT CASE BONDED PROPELLANTS  
 #COATINGS  
 DOMINO PROPELLANTS  
 #ESTERS  
 PLASTIC PROPELLANTS

# #PLASTICS

PROPELLANT ADDITIVES  
SKYDROL (TRADEMARK)  
SOLID PROPELLANTS  
SOLID ROCKET BINDERS  
SURFACTANTS  
TRIACETIN

#PLASTICS  
1804 1808 1809  
UP PLASTIC MATERIALS  
NT ACRYLIC RESINS  
ADDITION RESINS  
EPOXY RESINS  
FURAN RESINS  
MICARTA  
NYLON (TRADEMARK)  
PERSPEX (TRADEMARK)  
PHENOLIC RESINS  
POLYAMIDE RESINS  
POLYBUTADIENE  
POLYESTER RESINS  
POLYETHER RESINS  
POLYETHYLENE TEREPHTHALATE  
POLYETHYLENES  
POLYISOBUTYLENE  
POLYMETHYL METHACRYLATE  
POLYPROPYLENE  
POLYSTYRENE  
POLYTETRAFLUOROETHYLENE  
POLYVINYL ALCOHOL  
POLYVINYL CHLORIDE  
REINFORCED PLASTICS  
SYNTHETIC RESINS  
TEFLON (TRADEMARK)  
THERMOPLASTIC RESINS  
THERMOSETTING RESINS  
VINYL COPOLYMERS  
VITON

BT ACRYLONITRILES  
CONSTRUCTION MATERIALS  
ELASTOMERS  
ION EXCHANGE RESINS  
KAPTON (TRADEMARK)  
MATERIALS SCIENCE  
MOLDING MATERIALS  
ORGANIC MATERIALS  
PLASTIC AIRCRAFT STRUCTURES  
POLYMERS  
THIOPLASTICS

PLASTISOLS  
1804 1808 1809 1810  
NT SMOKE  
BT DISPERSIONS  
#MIXTURES  
RT COLLOIDS  
COMPOSITE PROPELLANTS  
DOUBLE BASE PROPELLANTS  
#RESINS

PLAT SYSTEM  
0202 0203 0701 0705 1101 2101  
UP PILOT LANDING AID TELEVISION SYSTEM  
BT #COMMUNICATION EQUIPMENT  
BT #LANDING AIDS

PLATE (METAL)  
USE METAL PLATES  
PLATE THEORY  
3203  
RT FLAT PLATES  
#STRUCTURAL ANALYSIS

PLATEAUS  
1305 1902 3406  
RT APEXES  
EROSION  
HIGHLANDS  
PEAKS  
STRATIGRAPHY

PLATELETS  
0404 0406  
RT BLOOD COAGULATION  
BLOOD GROUPS  
HISTOLOGY  
THROMBOPLASTIN

PLATENS  
1504  
RT PLATES  
PRESSES  
PRESSING  
PUNCHES  
RAMS (PRESSES)  
ROLLERS  
#TOOLS

PLATES  
0903 0905 3203

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CORRUGATING  
DISKS (SHAPES)  
FLAT PLATES  
METAL COATINGS  
METAL PLATES  
PANELS  
PARALLEL PLATES  
PLATENS  
PLATES (STRUCTURAL MEMBERS)  
PLATING  
RECTANGULAR PLATES  
THIN PLATES  
TBAYS  
PLATES (STRUCTURAL MEMBERS)  
3202 3203  
UP SANDWICH PLATES  
NT ANISOTROPIC PLATES  
ANGULAR PLATES  
CANTILEVER PLATES  
CIRCULAR PLATES  
CORRUGATED PLATES  
ELASTIC PLATES  
END PLATES  
GIRDER WEBS  
ORTHOTROPIC PLATES  
PERFORATED PLATES  
POROUS PLATES  
REINFORCED PLATES  
BT #STRUCTURAL MEMBERS  
RT FLAT PLATES  
GIRDERS  
METAL PLATES  
METAL SHEETS  
ORTHOTROPISM  
PLATES  
RECTANGULAR PLATES  
REISSNER THEORY  
SLABS  
THIN PLATES

PLATFORMS  
0203 1403 3109 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT FLIGHT MECHANICS  
FLOORS  
FLYING PLATFORMS  
#GUIDANCE (MOTION)  
INERTIAL PLATFORMS  
LAUNCHING PADS  
SLABS  
SPACE STATIONS  
STABILIZED PLATFORMS  
SUPPORTS

PLATING  
0604 1702 1704  
NT ELECTROPLATING  
FLAME PLATING  
NICKEL PLATE  
RT CLADDING  
#DEPOSITION  
#DEPOSITS  
ELECTRODEPOSITION  
FINISHES  
LAMINATES  
METAL COATINGS  
#METAL FINISHING  
METALLIZING  
PLATES  
PROTECTIVE COATINGS  
SUBSTRATES  
THIN FILMS

PLATINUM  
1703  
NT PLATINUM BLACK  
PLATINUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
TRANSITION METALS  
PLATINUM ALLOYS  
1701 1703  
BT #ALLOYS  
PLATINUM BLACK  
0603 1703 1704  
BT #CHEMICAL ELEMENTS  
METAL PARTICLES  
METAL POWDER  
#PARTICLES  
PLATINUM

# NASA TREASURES (ALPHABETICAL LISTING)

POWDER (PARTICLES)  
TRANSITION METALS  
CATALYSTS  
RT  
PLATINUM COMPOUNDS  
0603 1804  
NT PLATINUM OXIDES  
RT CHEMICAL COMPOUNDS  
GROUP 8 COMPOUNDS  
METAL COMPOUNDS  
PLATINUM ISOTOPES  
0603 1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
PLATINUM  
TRANSITION METALS  
PLATINUM OXIDES  
0603 1804  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
PLATINUM COMPOUNDS  
PLAYBACKS  
0702 1402 1410  
RT MAGNETIC TAPES  
RECORDERS  
RECORDING  
RECORDS  
TAPES  
PLENUM CHAMBERS  
0209 0303 1203 3301  
RT AIR INTAKES  
CHAMBERS  
DUCTS  
EXHAUST SYSTEMS  
FUEL SYSTEMS  
#INTAKE SYSTEMS  
MANIFOLDS  
WATER INTAKES  
PLETHYSMOGRAPHY  
0402 0404 0405 0408 0501 0905  
NT ELECTROPLETHYSMOGRAPHY  
BT #BIOENGINEERING  
BIOMETRICS  
PLEURAE  
0402 0404 0405  
BT #MEMBRANES  
RT LUNGS  
PLEUROTIN  
0401 0404  
BT ANTIBIOTICS  
RT STAPHYLOCOCCUS  
PLEXIGLASS (TRADEMARK)  
USE POLYMETHYL METHACRYLATE  
PLIES  
USE LAYERS  
PLOTS  
0803 2103  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #CHARTS  
#DISPLAY DEVICES  
PLOTTERS  
PLOTING  
#SITES  
PLOTTERS  
0705 0803 1504 2103  
UP PLOTTING INSTRUMENTS  
NT X-Y PLOTTERS  
BT AUXILIARY EQUIPMENT (COMPUTERS)  
COMPUTER GRAPHICS  
#RECORDING INSTRUMENTS  
RT DIGITAL TO ANALOG CONVERTERS  
#DISPLAY DEVICES  
#NAVIGATION AIDS  
PLOTS  
PLOTING  
POSITION INDICATORS  
PRINTERS  
REMOTE CONSOLES  
PLOTING  
0705 0803 1504 2103  
RT ANALOG TO DIGITAL CONVERTERS  
#DISPLAY DEVICES  
#NAVIGATION  
PLOTS  
PLOTTERS  
PRINTING  
RECORDING

# NASA THESAURUS (ALPHABETICAL LISTING)

**PLOTTING INSTRUMENTS**  
 USE PLOTTERS  
**PLOWS**  
 0505 1504  
 RT AGRICULTURE MIXERS  
**PLSS**  
 USE PORTABLE LIFE SUPPORT SYSTEMS  
**PLUG NOZZLES**  
 2804 2806  
 BT EXHAUST NOZZLES  
 RT ANNULAR NOZZLES  
 CONICAL NOZZLES  
 NOZZLE GEOMETRY  
 NOZZLES  
 ROCKET NOZZLES  
 SPIKE NOZZLES  
**PLUGGING**  
 1501  
 UF CLOGGING  
 RT AGGLOMERATION  
 BLOCKING  
 CAULKING  
 CLOSING  
 CLOSURES  
 CONSTRUCTIONS  
 FOULING  
 PLUGS  
 SEALING  
 SEALS (STOPPERS)  
**PLUGS**  
 1406 3201  
 (EXCLUDES SPARKPLUGS OR ELECTRICAL CONNECTORS)  
 BT SEALS (STOPPERS)  
 RT BLOCKING  
 CLOSURES  
 OUTLETS  
 PLUGGING  
 STOPPING  
**PLUM BROOK REACTOR**  
 2204  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
**PLUMAGE**  
 0402  
 RT BIRDS  
**PLUMBANE**  
 USE LEAD COMPOUNDS  
 METAL HYDRIDES  
**PLUMES**  
 2702 2805 2808 3303  
 UP JET PLUMES  
 RT ROCKET EXHAUST  
 CHIMNEYS  
 CONDENSATES  
 SHOCK WAVES  
**PLUNGERS**  
 1504  
 RT MIXERS  
 PISTONS  
 RAMS (PRESSES)  
 RAMS (PUMPS)  
**PLUTO (PLANET)**  
 3001 3008  
 BT #CELESTIAL BODIES  
 PLANETS  
**PLUTO REACTORS**  
 0204 2202 2204 2805 3401  
 BT #NUCLEAR REACTORS  
 RT NUCLEAR RAMJET ENGINES  
 NUCLEAR ROCKET ENGINES  
 SLAM SUPERSONIC LOW ALTITUDE MISSILE  
**PLUTONIUM**  
 1703 2203 2406  
 RT PLUTONIUM ISOTOPES  
 PLUTONIUM 238  
 PLUTONIUM 239  
 PLUTONIUM 240  
 PLUTONIUM 241  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 #METALS  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIUM ELEMENTS  
 RT FISSIONABLE MATERIALS

NUCLEAR FUELS  
**PLUTONIUM ALLOYS**  
 1701 2203  
 BT #ALLOYS  
 RT NUCLEAR FUEL ELEMENTS  
 NUCLEAR FUELS  
**PLUTONIUM CARBIDES**  
 USE PLUTONIUM COMPOUNDS  
**PLUTONIUM COMPOUNDS**  
 0603 1804 2203  
 UF PLUTONIUM CARBIDES  
 NT PLUTONIUM FLUORIDES  
 PLUTONIUM OXIDES  
 BT #ACTINIDE SERIES COMPOUNDS  
 RT CERAMIC NUCLEAR FUELS  
 METAL COMPOUNDS  
 NUCLEAR FUELS  
**PLUTONIUM FLUORIDES**  
 0603 1804  
 BT #ACTINIDE SERIES COMPOUNDS  
 FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 PLUTONIUM COMPOUNDS  
**PLUTONIUM ISOTOPES**  
 2406  
 RT PLUTONIUM 238  
 PLUTONIUM 239  
 PLUTONIUM 240  
 PLUTONIUM 241  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PLUTONIUM  
 RADIOACTIVE ISOTOPES  
 TRANSURANIUM ELEMENTS  
**PLUTONIUM OXIDES**  
 0603 1804 2203  
 BT #ACTINIDE SERIES COMPOUNDS  
 #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 PLUTONIUM COMPOUNDS  
 RT CERAMIC NUCLEAR FUELS  
**PLUTONIUM RECYCLE TEST REACTOR**  
 1108 2204  
 UF PRTR (REACTOR)  
 BT HEAVY WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR ELECTRIC POWER GENERATION  
 #NUCLEAR POWER REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 WATER MODERATED REACTORS  
**PLUTONIUM 238**  
 1703 2203 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PLUTONIUM  
 PLUTONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIUM ELEMENTS  
**PLUTONIUM 239**  
 1703 2203 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PLUTONIUM  
 PLUTONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIUM ELEMENTS  
**PLUTONIUM 240**  
 1703 2203 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PLUTONIUM  
 PLUTONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIUM ELEMENTS

## PNEUMOGRAPHY

**PLUTONIUM 241**  
 1703 2406  
 BT ACTINIDE SERIES  
 #CHEMICAL ELEMENTS  
 #HEAVY ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PLUTONIUM  
 PLUTONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES  
 TRANSURANIUM ELEMENTS  
**PLUVIOGRAPHS**  
 USE RAIN GAGES  
 #RECORDING INSTRUMENTS  
**PLYWOOD**  
 1805  
 BT #COMPOSITE MATERIALS  
 #COMPOSITE STRUCTURES  
 LAMINATES  
 WOOD  
 RT TREES (PLANTS)  
 WOODEN STRUCTURES  
**PNEUMATIC CIRCUITS**  
 0303 1201 1203 2204  
 BT #CIRCUITS  
 PNEUMATIC EQUIPMENT  
 RT FLUIDICS  
 PNEUMATIC CONTROL  
 #VALVES  
**PNEUMATIC CONTROL**  
 0303 1203 2204  
 UF PNEUMATIC RESET  
 RT #AUTOMATIC CONTROL  
 AUTOMATIC CONTROL VALVES  
 COMPRESSED GAS  
 CONTROL  
 CONTROL EQUIPMENT  
 CONTROL VALVES  
 #CONTROLLERS  
 ELECTRONIC CONTROL  
 ENGINE CONTROL  
 FLUID POWER  
 FLUIDICS  
 HYDRAULIC CONTROL  
 PNEUMATIC CIRCUITS  
 PNEUMATIC EQUIPMENT  
 REMOTE CONTROL  
**PNEUMATIC EQUIPMENT**  
 0303 1201 1203 2204  
 NT GAS VALVES  
 PNEUMATIC CIRCUITS  
 RT COMPRESSED AIR  
 CUSHIONS  
 EQUIPMENT  
 FLUID AMPLIFIERS  
 FLUID POWER  
 FLUID SWITCHING ELEMENTS  
 FLUIDICS  
 GAS GENERATORS  
 GOLAY DETECTOR CELLS  
 INFLATABLE STRUCTURES  
 NETWORKS  
 PNEUMATIC CONTROL  
 SERVOCONTROL  
 SERVOMECHANISMS  
 SHOCK ABSORBERS  
 SYSTEMS  
 #VALVES  
**PNEUMATIC PROBES**  
 1203 1408 3009 3108 3303  
 BT #MEASURING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE PROBES  
 RT FLOW MEASUREMENT  
 HIGH TEMPERATURE GASES  
 MASS FLOW RATE  
 NOZZLE FLOW  
 PRESSURE MEASUREMENTS  
**PNEUMATIC RESET**  
 USE PNEUMATIC CONTROL  
**PNEUMATICS**  
 1201 1202 1203  
 BT #FLUID MECHANICS  
 RT FLOW THEORY  
 FLUID POWER  
 FLUIDICS  
 #GASES  
 HYDRAULICS  
**PNEUMOGRAPHY**  
 USE PNEUMOGRAPHY  
 PNEUMOGRAPHY  
 0404 0408 0501

## PNEUMONIA

UF PNEUMOGRAPHY  
RT BIOTELEMETRY  
LUNGS  
MEASUREMENT  
RADIOGRAPHY

## PNEUMONIA

0405 0412  
BT #DISEASES  
RESPIRATORY DISEASES  
RT CONGESTION

## PNEUMOTHORAX

0404  
RT #DISEASES  
LUNGS  
#MEDICAL SCIENCE  
ORGANS

## POCKELS EFFECT

USE BIREFRINGENCE

## POCKET MICE

0402 0405 0411

BT #ANIMALS

MAMMALS

MICE

RODENTS

VERTEBRATES

RT RATS

## PODS (EXTERNAL STORES)

1504 2801

BT EXTERNAL STORES

RT COWLINGS

FUEL TANKS

NACELLES

WING-FUSELAGE STORES

## POGO

1308 3107

UF POLAR ORBIT GEOPHYSICAL OBSERVATORY

BT ARTIFICIAL SATELLITES

EARTH SATELLITES

GEOPHYSICAL OBSERVATORIES

GEOPHYSICAL SATELLITES

#OBSERVATORIES

OGO

#SATELLITES

RT AGENA B ROCKET VEHICLE

EGO

## POGO EFFECTS

3203

BT #VIBRATION

VIBRATION EFFECTS

RT LONGITUDINAL STABILITY

## POHLHAUSEN METHOD

0101 0102 1202 1203 3303

UF POHLHAUSEN SOLUTION

BT APPROXIMATION

NUMERICAL ANALYSIS

RT LAMINAR BOUNDARY LAYER

VELOCITY DISTRIBUTION

VISCOUS FLOW

## POHLHAUSEN SOLUTION

USE POHLHAUSEN METHOD

## POIKILOthermia

0402 0404

NT AMPHIBIA

FROGS

LIZARDS

REPTILES

SNAKES

TURTLES

BT #ANIMALS

RT BODY TEMPERATURE

## POINCARÉ PROBLEM

1902

RT PROBLEMS

## POINCARÉ SPHERES

1902

BT BODIES OF REVOLUTION

SPHERES

#SYMMETRICAL BODIES

RT #GEOMETRY

## POINT DEFECTS

2601 2602

NT FRENKEL DEFECTS

VACANCIES (CRYSTAL DEFECTS)

BT CRYSTAL DEFECTS

#DEFECTS

RT CRYSTAL DISLOCATIONS

IMPURITIES

SURFACE DEFECTS

## POINT IMPACT

0710 2310

BT IMPACT

RT ELECTRON IMPACT

HYPERVELOCITY IMPACT  
ION IMPACT  
PROTON IMPACT  
POINT MATCHING METHOD (MATHEMATICS)  
USE. BOUNDARY VALUE PROBLEMS

## POINT SOURCES

0710 2310 2402  
BT RADIATION SOURCES  
RT DIFFUSE RADIATION  
ENERGY SOURCES  
HUYGENS PRINCIPLE  
LIGHT SOURCES  
SPHERICAL WAVES

## POINT TO POINT COMMUNICATIONS

0702 0707  
BT #COMMUNICATING  
RT RADIO COMMUNICATION  
#TELECOMMUNICATION  
WIDEBAND COMMUNICATION

## POINTERS

USE DIALS  
POINTING CONTROL SYSTEMS  
0201 1402 1410 2102 3009  
BT #FLIGHT CONTROL  
RT CONTROL  
#GUIDANCE (MOTION)  
#SPACE FLIGHT  
#SPACECRAFT CONTROL

## POINTS

1902 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT POINTS (MATHEMATICS)

POSITION (LOCATION)

POINTS (MATHEMATICS)

1902

NT FIXED POINTS (MATHEMATICS)

INFLECTION POINTS

BT EUCLIDEAN GEOMETRY

#GEOMETRY

RT FOCI

LOCI

POINTS

RECIPROCAL THEOREMS

SINGULARITY (MATHEMATICS)

## POISEUILLE FLOW

USE LAMINAR FLOW

## POISONING

0405 0406 0412  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT BENZENE POISONING

BERYLLIUM POISONING

CARBON MONOXIDE POISONING

CARBON TETRACHLORIDE POISONING

CURARE

HYDROCARBON POISONING

INTOXICATION

LEAD POISONING

NARCOSIS

POISONING (REACTION INHIBITION)

TOXIC DISEASES

TOXIC HAZARDS

POISONING (REACTION INHIBITION)

2203 2204

RT CONTROL RODS

NEUTRON ABSORBERS

#NUCLEAR REACTIONS

POISONING

RADIOACTIVE WASTES

POISONING (TOXICOLOGY)

USE TOXIC DISEASES

## #POISONS

0405 0406 0412

NT CARBONATES (TRADENAME)

CURARE

DICHLORODIPHENYLTRICHLOROETHANE

DIELDRIN

ENDOTOXINS

INSECTICIDES

PHENOTHIAZINES

PROSGENE

STRYCHNINE

URETHANES

RT ENVIRONMENT POLLUTION

#POLLUTION

TOXICITY

## POISSON DENSITY FUNCTIONS

1905

UF POISSON PROCESS

## NASA THESAURUS (ALPHABETICAL LISTING)

BT #FUNCTIONS (MATHEMATICS)

#STATISTICAL ANALYSIS

RT CONTINUITY (MATHEMATICS)

DISCRETE FUNCTIONS

EXPONENTIAL FUNCTIONS

## POISSON EQUATION

1203 1408 1902 3304

BT #ANALYSIS (MATHEMATICS)

DIFFERENTIAL EQUATIONS

REAL VARIABLES

RT #CLASSICAL MECHANICS

ELECTROSTATICS

ISENTROPE

LAPLACE EQUATION

PARTIAL DIFFERENTIAL EQUATIONS

## POISSON PROCESS

USE POISSON DENSITY FUNCTIONS

#STOCHASTIC PROCESSES

## POISSON RATIO

1902 1704 3203

BT #MECHANICAL PROPERTIES

#RATIOS

RT AIRY FUNCTION

COMPRESSIVE STRENGTH

ELASTIC PROPERTIES

FIBER STRENGTH

MODULUS OF ELASTICITY

NU FACTOR

STRESS-STRAIN DIAGRAMS

TENSILE STRENGTH

## POLAND

1305

RT EUROPE

NATIONS

## POLAR AURORAS

USE AURORAS

## POLAR CAP ABSORPTION

1305 2003 2306 3008

BT ELECTROMAGNETIC ABSORPTION

#ENERGY ABSORPTION

#RADIATION ABSORPTION

THERMAL ABSORPTION

## POLAR CAPS

1305 2003 3008

UF GREAT POLAR CAPS

RT ANTARCTIC REGIONS

ARCTIC REGIONS

CAPS

EARTH (PLANET)

#ICE

MARS (PLANET)

## POLAR COORDINATES

1304 1902 1904 2103

BT #COORDINATES

RT ASTRONOMICAL COORDINATES

PLANISPHERES

SMITH CHART

## POLAR GASES

0603 1507 1601 1703 2404 3304

BT #GASES

MOLECULAR GASES

CARBON DIOXIDE LASERS

GAS COMPOSITION

GAS DISCHARGES

GAS DYNAMICS

GAS LASERS

GAS MASERS

POLARIZATION (CHARGE SEPARATION)

## POLAR IONOSPHERE BEACON

USE BEACON SATELLITES

## POLAR METEOROLOGY

2004 3107

BT #METEOROLOGY

RT AEROLOGY

CLIMATOLOGY

HYDROLOGY

ICE REPORTING

## POLAR NAVIGATION

1304 2003 2103

BT #NAVIGATION

RT AIR NAVIGATION

CELESTIAL NAVIGATION

DEAD RECKONING

DIGITAL NAVIGATION

INERTIAL NAVIGATION

LORAN

## POLAR ORBIT GEOPHYSICAL OBSERVATORY

USE POGO

## POLAR ORBITS

1304 1904 2103 3107

BT #ORBITS

SATELLITE ORBITS

# NASA THESAURUS (ALPHABETICAL LISTING)

RT SPACECRAFT ORBITS  
 CIRCULAR ORBITS  
 DISCOVERER 5 SATELLITE  
 DISCOVERER 6 SATELLITE  
 EARTH ORBITS  
 ELLIPTICAL ORBITS  
 EQUATORIAL ORBITS  
 LUNAR ORBITS  
 LUNAR SATELLITES  
 PLANETARY ORBITS  
 TIROS SATELLITES  
 TWENTY-FOUR HOUR ORBITS  
 POLAR RADIO BLACKOUT  
 0705 1302 2003  
 BT BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 RADIO FREQUENCY INTERFERENCE  
 RT AURORAL ZONES  
 IONOSPHERIC PROPAGATION  
 POLAR REGIONS  
 POLAR REGIONS  
 1304 1305 2003 3008  
 UP HIGH LATITUDES  
 NT ANTARCTIC REGIONS  
 ARCTIC REGIONS  
 MCMURDO SOUND  
 ROSS ICE SHELF  
 BT #REGIONS  
 RT AURORAL ZONES  
 CLIMATOLOGY  
 GEOGRAPHY  
 PERMAFROST  
 POLAR RADIO BLACKOUT  
 TEMPERATE REGIONS  
 POLAR SUBSTORMS  
 1308 2003  
 BT #STORMS  
 STORMS (METEOROLOGY)  
 POLARIMETERS  
 1406 2306 2310 2402  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 BT CHEMICAL ANALYSIS  
 ELLIPSONETERS  
 #OPTICAL MEASUREMENT  
 PHOTOMETERS  
 POLARIMETRY  
 POLARISCOPES  
 POLARIZERS  
 POLAROGRAPHY  
 POLARIMETRY  
 1406 2306 2310 2402  
 BT #OPTICAL MEASUREMENT  
 RT OPTICAL MEASURING INSTRUMENTS  
 PHOTOMETRY  
 POLARIMETERS  
 POLARIZATION (WAVES)  
 POLARIS A1 MISSILE  
 3101 3401  
 BT BALLISTIC MISSILES  
 FLEET BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 #MISSILES  
 POLARIS MISSILES  
 SURFACE TO SURFACE MISSILES  
 POLARIS A2 MISSILE  
 3101 3401  
 BT BALLISTIC MISSILES  
 FLEET BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 #MISSILES  
 POLARIS MISSILES  
 SURFACE TO SURFACE MISSILES  
 POLARIS A2A MISSILE  
 3101 3401  
 BT BALLISTIC MISSILES  
 FLEET BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 #MISSILES  
 POLARIS MISSILES  
 SURFACE TO SURFACE MISSILES  
 POLARIS A3 MISSILE  
 3101 3401  
 BT BALLISTIC MISSILES  
 FLEET BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 #MISSILES  
 POLARIS MISSILES

SURFACE TO SURFACE MISSILES  
 POLARIS MISSILES  
 3101 3401  
 NT POLARIS A1 MISSILE  
 POLARIS A2 MISSILE  
 POLARIS A2A MISSILE  
 POLARIS A3 MISSILE  
 BT BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 #MISSILES  
 SURFACE TO SURFACE MISSILES  
 RT MULTISTAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
 IN-33 ENGINE  
 POLARIS SUBMARINES  
 USE GUIDED MISSILE SUBMARINES  
 POLARISCOPES  
 1406 2306 2310 2402  
 NT SENARHONT POLARISCOPES  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 RT OPTICAL MEASURING INSTRUMENTS  
 POLARIMETERS  
 POLARIZATION (WAVES)  
 POLARIZERS  
 POLARITY  
 0604 1002 2302 2304  
 RT DIPOLES  
 #ELECTRIC CHARGE  
 ELECTRIC FIELDS  
 #MAGNETIC FIELDS  
 MAGNETIC POLES  
 POLARIZATION (CHARGE SEPARATION)  
 POLARIZATION (SPIN ALIGNMENT)  
 QUADRUPOLES  
 POLARIZATION  
 0603 0710 2304 2307 2310 2401 2404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ANTIFERROELECTRICITY  
 MAGNETIZATION  
 PHOTOELASTIC ANALYSIS  
 POLARIZATION (CHARGE SEPARATION)  
 POLARIZATION (SPIN ALIGNMENT)  
 POLARIZATION (WAVES)  
 #POLARIZED RADIATION  
 POLARIZATION (CHARGE SEPARATION)  
 2304 2307  
 UP CHARGE SEPARATION  
 NT DIELECTRIC POLARIZATION  
 ELECTROLYTIC POLARIZATION  
 CHARGE DISTRIBUTION  
 RT CHARGE TRANSFER  
 DEACTIVATION  
 DEPOLARIZATION  
 ELECTRETS  
 #ELECTRIC CHARGE  
 ELECTRIC MOMENTS  
 ELECTRODE FILM BARRIERS  
 ELECTROMIGRATION  
 HALL EFFECT  
 IONOSPHERIC DRIFT  
 MAGNETIZATION  
 OVERVOLTAGE  
 POLAR GASES  
 POLARITY  
 POLARIZATION  
 PYROELECTRICITY  
 SEPARATION  
 TAPEL LAW  
 POLARIZATION (SPIN ALIGNMENT)  
 2307  
 RT ALIGNMENT  
 #ANISOTROPY  
 DEACTIVATION  
 #MAGNETIC PROPERTIES  
 MAGNETIZATION  
 ORIENTATION  
 POLARITY  
 POLARIZATION  
 ROTATION  
 SPIN TESTS  
 POLARIZATION (WAVES)  
 1406 2306 2310  
 UP POLARIZATION CHARTS  
 NT CIRCULAR POLARIZATION  
 ELLIPTICAL POLARIZATION  
 RT ANISOTROPIC MEDIA  
 #ANISOTROPY  
 BIREFRINGENCE

# POLAROGRAPHES

COLLIMATION  
 FARADAY EFFECT  
 KERR ELECTROOPTICAL EFFECT  
 KERR MAGNETOOPTICAL EFFECT  
 MAGNETO-OPTICS  
 MONOCHROMATIZATION  
 OPTICAL COUPLING  
 OPTICAL PROPERTIES  
 ORIENTATION  
 PHOTOELASTIC ANALYSIS  
 POLARIMETRY  
 POLARISCOPES  
 POLARIZATION  
 POLARIZED ELECTROMAGNETIC RADIATION  
 POLARIZERS  
 POLARONS  
 REFRACTIVITY  
 ROTATION  
 POLARIZATION CHARACTERISTICS  
 2302 2304 2306 2307 2401 2404  
 BT #ELECTRICAL PROPERTIES  
 #MAGNETIC PROPERTIES  
 RT BREWSTER ANGLE  
 #POLARIZED RADIATION  
 POLARIZATION CHARTS  
 USE GRAPHS (CHARTS)  
 POLARIZATION (WAVES)  
 POLARIZED ELASTIC WAVES  
 2306 2402  
 BT #ELASTIC WAVES  
 #POLARIZED RADIATION  
 RT S WAVES  
 SEISMIC WAVES  
 SOUND WAVES  
 POLARIZED ELECTROMAGNETIC RADIATION  
 2402  
 NT POLARIZED LIGHT  
 SYNCHROTRON RADIATION  
 BT #ELECTROMAGNETIC RADIATION  
 #POLARIZED RADIATION  
 RT #EXTRATERRESTRIAL RADIATION  
 FARADAY EFFECT  
 INFRARED RADIATION  
 KERR CELLS  
 LIGHT (VISIBLE RADIATION)  
 LYMAN ALPHA RADIATION  
 LYMAN BETA RADIATION  
 MAGNETO-OPTICS  
 MONOCHROMATIC RADIATION  
 POLARIZATION (WAVES)  
 POLARIZERS  
 RADIATIVE TRANSFER  
 RADIO WAVES  
 STELLAR RADIATION  
 ULTRAVIOLET RADIATION  
 POLARIZED LIGHT  
 2306 2310  
 BT #ELECTROMAGNETIC RADIATION  
 POLARIZED ELECTROMAGNETIC RADIATION  
 #POLARIZED RADIATION  
 RT GEGENSCHHEIN  
 KERR MAGNETOOPTICAL EFFECT  
 MONOCHROMATIC RADIATION  
 OPTICAL POLARIZATION  
 PHOTOELASTICITY  
 ZODIACAL LIGHT  
 #POLARIZED RADIATION  
 2306 2402  
 NT POLARIZED ELASTIC WAVES  
 POLARIZED ELECTROMAGNETIC RADIATION  
 POLARIZED LIGHT  
 SYNCHROTRON RADIATION  
 RT #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 PLASMA RADIATION  
 POLARIZATION  
 POLARIZATION CHARACTERISTICS  
 RADIATION  
 RAYS  
 POLARIZERS  
 2304 2306 2307 2310 2402  
 RT KERR CELLS  
 LIGHT (VISIBLE RADIATION)  
 OPTICAL POLARIZATION  
 POLARIMETERS  
 POLARISCOPES  
 POLARIZATION (WAVES)  
 POLARIZED ELECTROMAGNETIC RADIATION  
 POLAROGRAPHES  
 USE POLAROGRAPHY

## POLAROGRAPHY

## POLAROGRAPHY

1002 1406 2304  
 UP POLAROGRAPHY  
 BT ELECTRICAL MEASUREMENT  
 RT CHEMICAL ANALYSIS  
 OPTICAL POLARIZATION  
 POLARIMETERS  
 QUANTITATIVE ANALYSIS

POLARONS  
 2304 2403 2601  
 BT CHARGED PARTICLES  
 ELECTRONS  
 #ELEMENTARY EXCITATIONS  
 ELEMENTARY PARTICLES  
 #PARTICLES  
 RT CONDUCTION BANDS  
 ELECTRON PHONON INTERACTIONS  
 IONIC CRYSTALS  
 PHONONS  
 PLASMONS  
 POLARIZATION (WAVES)

POLES  
 0701 0901 0904 1102 1106 1902 2401  
 2404 2405  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT MAGNETIC DIPOLES  
 MAGNETIC POLES  
 MONOPOLES  
 POLES (SUPPORTS)  
 REGGE POLES  
 POLES (SUPPORTS)

POLES (SUPPORTS)  
 3203  
 RT ELECTRIC POWER TRANSMISSION  
 POLES

POLICE  
 3402 3403  
 BT #PERSONNEL  
 RT #COMMUNITIES  
 REGULATIONS  
 SECURITY  
 SOCIAL FACTORS  
 VIOLENCE

POLICIES  
 3401 3402 3403 3406  
 NT PATENT POLICY  
 PROCUREMENT POLICY  
 RT GOVERNMENTS  
 PROHIBITION  
 REGULATIONS  
 #RULES

POLIOPTYELITIS  
 0405  
 BT #DISEASES  
 INFECTIOUS DISEASES

POLISH TS-11 AIRCRAFT  
 USE TS-11 AIRCRAFT

POLISHED METALS  
 USE METAL POLISHING

#POLISHING  
 0602 0604 1504 2306 2310  
 NT ELECTROPOLISHING  
 METAL POLISHING  
 VIBRATORY POLISHING

RT ABRASION  
 CLEANING  
 FINISHES  
 GRINDING (MATERIAL REMOVAL)  
 METALLOGRAPHY  
 SMOOTHING  
 SURFACE FINISHING

POLITICS  
 3403  
 RT #COMMUNITIES  
 CULTURE (SOCIAL SCIENCES)  
 GOVERNMENTS  
 INTERNATIONAL COOPERATION  
 INTERNATIONAL LAW  
 #LAW (JURISPRUDENCE)  
 NATIONS  
 REGIMES  
 SOCIOLOGY  
 SOVEREIGNTY  
 UNITED NATIONS  
 VOTING  
 WARPARE

POLLEN  
 0405 0409  
 BT #PARTICLES  
 RT AEROBIOLOGY  
 AIR POLLUTION

## #DUST

#PLANTS (BOTANY)  
 REPRODUCTION

POLLUTANTS  
 USE CONTAMINANTS

#POLLUTION  
 0411 0505  
 NT AIR POLLUTION  
 ENVIRONMENT POLLUTION  
 THERMAL POLLUTION  
 WATER POLLUTION

RT CONTAMINANTS  
 CONTAMINATION  
 DEBRIS  
 DECONTAMINATION  
 DISSIPATION  
 ELIMINATION  
 HUMAN WASTES  
 METABOLIC WASTES  
 MICROCYSTIS  
 #MICROORGANISMS  
 #POISONS  
 PREVENTION  
 PURITY  
 QUALITY  
 RADIOACTIVE WASTES  
 SMOKE ABATEMENT  
 TOXICOLOGY  
 WASTE DISPOSAL  
 #WASTES  
 WATER  
 WATER RECLAMATION  
 WATER TREATMENT

POLLUX STAR  
 3001  
 BT #CELESTIAL BODIES  
 STARS  
 RT ORION CONSTELLATION

POLONIUM  
 1204 2406  
 NT POLONIUM ISOTOPES  
 POLONIUM 208  
 POLONIUM 209  
 POLONIUM 210  
 BT #CHEMICAL ELEMENTS  
 POLONIUM COMPOUNDS  
 0603 1804  
 RT GROUP 6A COMPOUNDS

POLONIUM ISOTOPES  
 2406  
 NT POLONIUM 208  
 POLONIUM 209  
 POLONIUM 210

BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 POLONIUM

POLONIUM 208  
 0603 1703 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 POLONIUM

POLONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES

POLONIUM 209  
 1703 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 POLONIUM

POLONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES

POLONIUM 210  
 1703 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 POLONIUM

POLONIUM ISOTOPES  
 RADIOACTIVE ISOTOPES

POLYACRYLATES  
 USE ACRYLIC RESINS

POLYAMIDE RESINS  
 1504 1802 1808 1810  
 UP NYLON RESINS  
 NT NYLON (TRADEMARK)  
 BT PURAN RESINS  
 #PLASTICS  
 #RESINS  
 SYNTHETIC RESINS  
 THERMOSETTING RESINS

## NASA THESAURUS (ALPHABETICAL LISTING)

## POLYATOMIC GASES

0603 2401 2404  
 RT DIATOMIC GASES  
 BT #GASES  
 MOLECULAR GASES

POLYATOMIC MOLECULES  
 0603 2404  
 RT DIATOMIC MOLECULES  
 TRIATOMIC MOLECULES  
 BT #MOLECULES  
 RT ATOMS  
 CHEMICAL BONDS  
 CHEMICAL COMPOUNDS  
 #IONS  
 MOLECULAR STRUCTURE  
 MOLECULAR WEIGHT

POLYBENZIMIDAZOLE  
 1808 1810  
 RT SYNTHETIC FIBERS

POLYBUTADIENE  
 1808 1810  
 BT #PLASTICS  
 RT ADDITION RESINS  
 BUTADIENE  
 SYNTHETIC RUBBERS

POLYBUTADIENE TETRANITRAMINE  
 1808 2809  
 BT NITRO COMPOUNDS  
 #NITROGEN COMPOUNDS  
 RT PLASTIC PROPELLANTS

POLYCARBONATES  
 1808  
 NT LEXAN (TRADEMARK)  
 BT #CARBON COMPOUNDS  
 CARBONATES  
 #ESTERS  
 RT POLYMERS

POLYCRYSTALS  
 1704 2601  
 BT #CRYSTALS  
 RT BICRYSTALS  
 CRYSTAL STRUCTURE  
 SINGLE CRYSTALS

POLICYTHENIA  
 0405 0406  
 RT HEMOGLOBIN  
 HEMOLYSIS  
 HEMORRHAGES  
 SPLEEN

POLYESTER RESINS  
 1808 1810  
 BT #PLASTICS  
 #RESINS  
 SYNTHETIC RESINS  
 RT DACRON (TRADEMARK)  
 THERMOSETTING RESINS

POLYESTERS  
 1808 1810  
 BT #ESTERS  
 RT POLYMERS  
 SYNTHETIC FIBERS

POLYETHER RESINS  
 1808 1809 1810  
 NT POLYMETHYL METHACRYLATE  
 BT #PLASTICS  
 #RESINS  
 SYNTHETIC RESINS

POLYETHYLENE TEREPHTHALATE  
 1808 1810  
 BT #ESTERS  
 #PLASTICS  
 POLYETHYLENES  
 TEREPHTHALATE  
 RT ADDITION RESINS  
 MYLAR (TRADEMARK)  
 POLYMERS

POLYETHYLENES  
 1808 1810  
 NT POLYETHYLENE TEREPHTHALATE  
 BT #PLASTICS  
 RT ADDITION RESINS  
 ETHYLENE  
 SYNTHETIC RESINS  
 THERMOPLASTIC RESINS

POLYGONIZATION  
 1704 2601  
 RT CRYSTAL DEFECTS  
 CRYSTAL GROWTH  
 RECRYSTALLIZATION

POLYGONS  
 1902  
 NT HEXAGONS

# **BASA THESAURUS (ALPHABETICAL LISTING)**

PARALLELOGRAMS  
RECTANGLES  
SQUARES (MATHEMATICS)  
TETRAGONS  
TRAPEZOIDS  
TRIANGLES  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT POLYTOPES  
POLYHEDRONS  
1902 2601  
NT CUBES (MATHEMATICS)  
ICOSAHEDRONS  
OCTAHEDRONS  
PARALLELEPIPEDS  
PYRAMIDS  
RHOMBOHEDRONS  
TETRAHEDRONS  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT POLYTOPES  
POLYIMIDE RESINS  
1809 1810  
BT #RESINS  
RT POLYIMIDES  
POLYIMIDES  
1808 1810  
NT KAPTON (TRADEMARK)  
BT AMIDES  
#NITROGEN COMPOUNDS  
RT POLYIMIDE RESINS  
POLYISOBUTYLENE  
1808 1810  
BT #PLASTICS  
RT ADDITION RESINS  
SYNTHETIC RUBBERS  
POLYISOPRENES  
1805 1808 1810  
BT POLYMERS  
RT #RUBBER  
SYNTHETIC RUBBER  
POLYMER CHEMISTRY  
0603 1808 1810  
RT CHEMISTRY  
POLYMER PHYSICS  
POLYWATER  
POLYMER PHYSICS  
1808 1810 2404  
BT PHYSICS  
POLYMER CHEMISTRY  
POLYWATER  
POLYMERIC FILMS  
1809  
UP PLASTIC FILMS  
THERMOPLASTIC FILMS  
NT KAPTON (TRADEMARK)  
MYLAR (TRADEMARK)  
RT CASTING  
#FIBERS  
FILMS  
NYLON (TRADEMARK)  
PHOTOGRAPHIC FILM  
PLASTIC COATINGS  
SHEETS  
POLYMERIZATION  
1808 1810  
NT COPOLYMERIZATION  
DIMERIZATION  
VINYL COPOLYMERS  
RT #CHEMICAL REACTIONS  
COUPLED MODES  
DEPOLYMERIZATION  
REFINING  
SETTING  
ZIEGLER CATALYST  
POLYMERS  
1810  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT POLYISOPRENES  
BT CELLOPHANE  
COORDINATION POLYMERS  
ELASTOMERS  
FORMICA  
HIGH POLYMERS  
KAPTON (TRADEMARK)  
KEL-F  
LEXAN (TRADEMARK)  
LIGNIN  
METALLOSILOXANE POLYMER  
METALLOXANE POLYMER

METHYL POLYSILOXANE  
NICARTA  
MONOMERS  
MYLAR (TRADEMARK)  
NITROGEN POLYMERS  
NYLON (TRADEMARK)  
ORGANIC MATERIALS  
ORGANOMETALLIC POLYMERS  
PHOSPHORUS POLYMERS  
#PLASTICS  
POLYCARBONATES  
POLYESTERS  
POLYETHYLENE TEREPHTHALATE  
POLYQUINOXALINES  
POLYTETRAFLUOROETHYLENE  
POLYURETHANE FOAM  
PREPOLYMERS  
PYRRONES (TRADEMARK)  
#SILICON POLYMERS  
SILICONES  
SILOXANES  
SOLITHANES  
SYNTHETIC RESINS  
TEFLON (TRADEMARK)  
VINYL COPOLYMERS  
VINYL POLYMERS  
POLYETHYL METHACRYLATE  
0202 0603 1805 1808 1809 1810 2310  
UP LUCITE (TRADEMARK)  
PLEXIGLASS (TRADEMARK)  
BT #PLASTICS  
POLYETHER RESINS  
#RESINS  
SYNTHETIC RESINS  
POLYMORPHISM  
1704 2601  
BT MORPHOLOGY  
RT ALLOTROPY  
#CRYSTAL LATTICES  
CRYSTAL STRUCTURE  
PHYSICAL PROPERTIES  
POLYNOMIALS  
1902  
NT BINOMIALS  
DYADICS  
HERMITIAN POLYNOMIAL  
BT #ALGEBRA  
RT #COEFFICIENTS  
CUBIC EQUATIONS  
EIGENVALUES  
EIGENVECTORS  
EQUATIONS  
LINEAR EQUATIONS  
NONLINEAR EQUATIONS  
QUADRATIC EQUATIONS  
ROOTS OF EQUATIONS  
POLYOT SATELLITES  
3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
#UNMANNED SPACECRAFT  
POLYPHENYL ETHER  
1808 1810  
BT ETHERS  
POLIPHENYLS  
1808 1810  
BT PHENYLS  
RT TETRAPHENYLS  
POLYPROPYLENE  
1808 1810  
BT #PLASTICS  
RT ADDITION RESINS  
SYNTHETIC RESINS  
POLYQUINOXALINES  
0603 1810  
RT CHEMICAL COMPOUNDS  
POLYMERS  
POLYSACCHARIDES  
0403 1808  
NT CELLULOSE  
CHITIN  
DEXTRANS  
PORTISAN (TRADEMARK)  
GLYCOPENS  
STARCHES  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
RT GUNS (SUBSTANCES)  
POLYSLIPS  
0603 1805  
RT SLIP

## **POMERANCHUK THEOREM**

POLYSTATION DOPPLER TRACKING SYSTEM  
0709  
BT GROUND STATIONS  
#STATIONS  
#TRACKING (POSITION)  
TRACKING NETWORKS  
TRACKING STATIONS  
RT DOPPLER RADAR  
MISSILE TRACKING  
PULSE RADAR  
SPACE DETECTION AND TRACKING SYSTEM  
SPACECRAFT TRACKING  
SYSTEMS  
POLYSTYRENE  
1808 1810  
BT #PLASTICS  
STYRENES  
RT ADDITION RESINS  
SANTOWAX (TRADEMARK)  
SYNTHETIC RESINS  
THERMOPLASTIC RESINS  
POLYSULFIDES  
0603 1808 1810  
BT #CHALCOGENIDES  
INORGANIC SULFIDES  
SULFIDES  
#SULFUR COMPOUNDS  
RT COMPOSITE PROPELLANTS  
POLYTETRAFLUOROETHYLENE  
1802 1808 1810  
BT DIFLUORO COMPOUNDS  
#FLUORINE COMPOUNDS  
FLUORO COMPOUNDS  
#HALOGEN COMPOUNDS  
#PLASTICS  
RT POLYMERS  
SYNTHETIC RESINS  
TEFLON (TRADEMARK)  
POLYTOPES  
1203 2311  
RT ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY  
HYPERPLANES  
POLYGONS  
POLYHEDRONS  
POLYTROPIC PROCESSES  
1203 1408 3304  
RT ADIABATIC CONDITIONS  
ISOBARS  
THERMODYNAMICS  
POLYURETHANE FOAM  
1802 1808 1810  
RT FOAMS  
LOW DENSITY MATERIALS  
POLYMERS  
POLYURETHANE RESINS  
1802 1808 1810  
BT #RESINS  
RT COMPOSITE PROPELLANTS  
POLYVINYL ALCOHOL  
1808 1810  
BT ALCOHOLS  
#HYDROXYL COMPOUNDS  
#PLASTICS  
RT ADDITION RESINS  
SYNTHETIC RESINS  
VINYL POLYMERS  
POLYVINYL CHLORIDE  
1808 1810  
UP GEON (TRADEMARK)  
BT #PLASTICS  
RT ADDITION RESINS  
CHLORIDES  
SYNTHETIC RESINS  
VINYL POLYMERS  
POLYWATER  
0505 1808 2404  
BT WATER  
RT ATOMIC STRUCTURE  
CHEMICAL BONDS  
MOLECULAR STRUCTURE  
POLYMER CHEMISTRY  
POLYMER PHYSICS  
POMERANCHUK THEOREM  
1902 2311 2401 2403 2405  
BT #THEOREMS  
RT ANTIPARTICLES  
DEUTERONS  
DIFFRACTION PATTERNS  
EIKONAL EQUATION  
ELASTIC SCATTERING  
ELECTRONS

# PONDEROMOTIVE FORCES

ELEMENTARY PARTICLES  
 FIELD THEORY (PHYSICS)  
 FREDHOLM EQUATIONS  
 GLAUBER THEORY  
 HIGH ENERGY INTERACTIONS  
 K-MESONS  
 MESONS  
 NUCLEON-NUCLEON SCATTERING  
 REGGE POLES  
 SCATTERING CROSS SECTIONS  
 PONDEROMOTIVE FORCES  
 2304 2307 2502  
 BT ELECTROMOTIVE FORCES  
 RT ELECTRODYNAMICS  
 FORCE  
 LORENTZ FORCE  
 RELATIVISTIC PLASMAS  
 RELATIVITY  
 PONDS  
 1305  
 RT BASINS (CONTAINERS)  
 IRRIGATION  
 LAKES  
 RESERVOIRS  
 WASTE DISPOSAL  
 PONTYAGIN PRINCIPLE  
 0503 0802 1902  
 RT CALCULUS OF VARIATIONS  
 MAXIMUM PRINCIPLE  
 #OPTIMIZATION  
 REACTION TIME  
 POPULATION INVERSION  
 1002 1601 2403  
 BT #INVERSIONS  
 RT ENERGY LEVELS  
 MOLECULAR RELAXATION  
 POPULATIONS  
 STIMULATED EMISSION  
 POPULATION THEORY  
 1902 3406  
 RT POPULATIONS  
 PROBABILITY THEORY  
 THEORIES  
 POPULATIONS  
 1601 1905 2403  
 RT POPULATION INVERSION  
 POPULATION THEORY  
 STATISTICS  
 PORCELAIN  
 1801 1805  
 BT CERAMICS  
 #REFRACTORY MATERIALS  
 RT CERAMIC COATINGS  
 ENAMELS  
 GLASS  
 GLAZES  
 SILICON DIOXIDE  
 VITREOUS MATERIALS  
 PORES  
 USE POROSITY  
 POROSITY  
 3408  
 UP PORES  
 NT MICROPOROSITY  
 RT BUOYANCY  
 COMPRESSIBILITY  
 #DEFECTS  
 DENSITY  
 DENSITY (MASS/VOLUME)  
 FORMATIONS  
 GAS INJECTION  
 HOLE DISTRIBUTION (MECHANICS)  
 IMPREGNATING  
 INFILTRATION  
 INTERSTICES  
 LEAKAGE  
 PERMEABILITY  
 PERMEATING  
 PINHOLES  
 POROUS BOUNDARY LAYER CONTROL  
 POROUS MATERIALS  
 POROUS PLATES  
 PROPERTIES  
 SINTERING  
 TEXTURES  
 VOID RATIO  
 VOIDS  
 WETTABILITY  
 POROUS BOUNDARY LAYER CONTROL  
 1202 3303  
 BT BOUNDARY LAYER CONTROL  
 RT CONVECTIVE FLOW

FREE CONVECTION  
 MASS TRANSFER  
 POROSITY  
 POROUS WALLS  
 POROUS MATERIALS  
 0604 1704 1801  
 RT BRITTLE MATERIALS  
 CELLS  
 HONEYCOMB STRUCTURES  
 INTERSTICES  
 LOW DENSITY MATERIALS  
 MATERIALS  
 METAL POWDER  
 POROSITY  
 POROUS PLATES  
 POROUS WALLS  
 POWDER METALLURGY  
 SANDS  
 #SOILS  
 SPONGES (MATERIALS)  
 POROUS PLATES  
 0604 0903 1704  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT LOW DENSITY MATERIALS  
 POROSITY  
 POROUS MATERIALS  
 POROUS WALLS  
 POROUS WALLS  
 1203 1803 3303  
 BT WALLS  
 RT DIFFUSERS  
 POROUS BOUNDARY LAYER CONTROL  
 POROUS MATERIALS  
 POROUS PLATES  
 PORPHINES  
 0403 1808  
 BT #ORGANOMETALLIC COMPOUNDS  
 RT CHLOROPHYLLS  
 HEMOGLOBINS  
 PORPHYRA  
 0404 1305  
 BT ALGAE  
 #PLANTS (BOTANY)  
 PORPHYRINS  
 0402 0403 0404 0406 0409 1808  
 NT CHLOROPHYLLS  
 RT HEMOGLOBINS  
 PORPOISES  
 0402 0404  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 PORTABLE EQUIPMENT  
 3404  
 RT EQUIPMENT  
 LOGISTICS  
 MOBILITY  
 PORTABLE LIFE SUPPORT SYSTEMS  
 0504 0505 0507  
 UP PLSS  
 BT SUPPORT SYSTEMS  
 RT BIOPAKS  
 BREATHING APPARATUS  
 EMERGENCY LIFE SUSTAINING SYSTEMS  
 OXYGEN MASKS  
 PRESSURE SUITS  
 PORTS  
 0102 0202 1101 1103 1104 1105 3110 3202  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIRPORTS  
 DRYDOCKS  
 PORTS (OPENINGS)  
 PORTS (OPENINGS)  
 3203  
 BT #OPENINGS  
 RT APERTURES  
 CAVITIES  
 DUCTS  
 EXHAUST SYSTEMS  
 ORIFICES  
 OUTLETS  
 PORTS  
 VENTS  
 WINDOWS  
 WINDOWS (APERTURES)  
 PORTUGAL  
 1305  
 RT ANGOLA  
 EUROPE

# NASA THESAURUS (ALPHABETICAL LISTING)

NATIONS  
 POSEIDON MISSILES  
 3101 3401  
 BT BALLISTIC MISSILES  
 FLEET BALLISTIC MISSILES  
 #MISSILES  
 SURFACE TO SURFACE MISSILES  
 RT BALLISTIC MISSILE SUBMARINES  
 GUIDED MISSILE SUBMARINES  
 SEA LAUNCHING  
 POSITION  
 1902 2103 2311 3009 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ATTITUDE (INCLINATION)  
 POSITION (LOCATION)  
 POSITION (TITLE)  
 POSITION (LOCATION)  
 2103 3009  
 UP LOCALIZATION  
 LOCATION  
 RT SOLAR POSITION  
 RT ALTITUDE  
 AZIMUTH  
 BEARING (DIRECTION)  
 COLLATING  
 COLLOCATION  
 #COORDINATES  
 #DETECTION  
 DISTANCE  
 EPHEMERIDES  
 EXPOSURE  
 FIXING  
 #GEOMETRY  
 LATITUDE  
 LONGITUDE  
 #NAVIGATION  
 ORBITAL POSITION ESTIMATION  
 ORIENTATION  
 POINTS  
 POSITION  
 POSITION ERRORS  
 POSITION INDICATORS  
 POSITIONING  
 RADAR BEACONS  
 #SITES  
 SOUND RANGING  
 SPATIAL DISTRIBUTION  
 #STATIONS  
 SURVEYS  
 #TRACKING (POSITION)  
 POSITION (TITLE)  
 3406  
 RT EMPLOYEE RELATIONS  
 EVALUATION  
 GRADE  
 #PERSONNEL  
 POSITION  
 RATINGS  
 POSITION ERRORS  
 1904 2102 2103  
 BT ERRORS  
 RT ERROR SIGNALS  
 #NAVIGATION  
 OPTICAL CORRECTION PROCEDURE  
 ORBITAL POSITION ESTIMATION  
 POSITION (LOCATION)  
 POSITIONING  
 VELOCITY ERRORS  
 POSITION INDICATORS  
 2104 2807 3107  
 NT PLAN POSITION INDICATORS  
 RADIO DIRECTION FINDERS  
 SPACECRAFT POSITION INDICATORS  
 BT #AIRCRAFT INSTRUMENTS  
 #DISPLAY DEVICES  
 INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 RT ALTIMETERS  
 BEACONS  
 DISTANCE MEASURING EQUIPMENT  
 #FLIGHT INSTRUMENTS  
 HEAD-UP DISPLAYS  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 PLOTTERS  
 POSITION (LOCATION)  
 RANGE FINDERS  
 ROCKET-BORNE INSTRUMENTS  
 SEITANTS  
 SOLAR COMPASSES



# NASA THESAURUS (ALPHABETICAL LISTING)

SOUND LOCALIZATION  
POSITION SERVOS  
USE SERVOMOTORS  
POSITIONING  
3001 3006  
RT ADJUSTING  
ALIGNMENT  
AMBIGUITY  
AUTOMATIC GIMBAL ANTENNA VECTOR  
EQUIPMENT  
COLLATING  
COLLOCATION  
DISPLACEMENT  
DISTRIBUTING  
DISTRIBUTION  
EXPOSURE  
FITTING  
FIXING  
INSTRUMENT ORIENTATION  
JOINING  
LATITUDE MEASUREMENT  
LONGITUDE MEASUREMENT  
#NAVIGATION  
ORIENTATION  
POSITION (LOCATION)  
POSITION ERRORS  
RADIO NAVIGATION  
RELOCATION  
SETTING  
SPACING  
STATIONKEEPING  
POSITIONING DEVICES (MACHINERY)  
0904 1412 2104 3006  
NT BOOMS (EQUIPMENT)  
CAMS  
JIGS  
RT DEVICES  
HOLDERS  
JACKS (LIFTS)  
SLEWING  
POSITIVE FEEDBACK  
0408 0503 1003  
UF REGENERATIVE FEEDBACK  
BT #FEEDBACK  
RT AMPLIFICATION  
FEEDBACK AMPLIFIERS  
MULTIVIBRATORS  
NONLINEAR FEEDBACK  
#OSCILLATORS  
REGENERATION (ENGINEERING)  
SELF OSCILLATION  
TRANSFER FUNCTIONS  
POSITRON ANNIHILATION  
2403 2405  
BT ANNIHILATION REACTIONS  
#NUCLEAR REACTIONS  
RT ANTIPARTICLES  
ELEMENTARY PARTICLES  
NUCLEAR PARTICLES  
PAIR PRODUCTION  
#PARTICLES  
POSITRONIUM  
2403 2405  
RT ATOMS  
EXCITONS  
POSITRONS  
2403 2405  
BT #ANTIMATTER  
ANTIPARTICLES  
CHARGED PARTICLES  
ELEMENTARY PARTICLES  
NUCLEAR PARTICLES  
#PARTICLES  
RT LEPTONS  
PAIR PRODUCTION  
POST-BLAST NUCLEAR RADIATION  
0411 2205 2405  
BT NUCLEAR RADIATION  
RT FALLOUT  
HALF LIFE  
RADIANT FLUX DENSITY  
RADIATION EFFECTS  
RADIOACTIVE DECAY  
RADIOACTIVITY  
VELA SATELLITES  
POST BOOST PROPULSION SYSTEM  
2802 2808 3106  
BT ASCENT TRAJECTORIES  
#PROPULSION  
PROPULSION SYSTEM CONFIGURATIONS  
ROCKET ENGINES  
SPACECRAFT PROPULSION

TRAJECTORY CONTROL  
POSTAMPLIFIERS  
0701 0705 0905  
BT #AMPLIFIERS  
RT PREAMPLIFIERS  
POSTERIOR SECTIONS  
0404  
RT #ANATOMY  
DORSAL SECTIONS  
POSTFLIGHT ANALYSIS  
0101 0201 0804 1904 3004 3006 3007  
RT ANALYZING  
PERFORMANCE  
POSTULATES  
USE AXIONS  
POSTURE  
0401 0405 0408  
RT ORTHOSTATIC TOLERANCE  
#POTABLE LIQUIDS  
0505 0507  
NT BEVERAGES  
POTABLE WATER  
WINES  
RT #LIQUIDS  
PURITY  
POTABLE WATER  
0401 0505 0507  
BT #POTABLE LIQUIDS  
WATER  
RT COLD WATER  
CONSERVATION  
GROUND WATER  
PURIFICATION  
SANITATION  
WATER MANAGEMENT  
WATER TREATMENT  
POTASSIUM  
1703  
NT LIQUID POTASSIUM  
POTASSIUM ISOTOPES  
POTASSIUM 38  
POTASSIUM 39  
POTASSIUM 40  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
#METALS  
POTASSIUM ALLOYS  
0603 1701  
BT #ALLOYS  
POTASSIUM BROMIDES  
0603 1804  
BT BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
POTASSIUM COMPOUNDS  
POTASSIUM CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
POTASSIUM COMPOUNDS  
POTASSIUM CHROMATES  
0603 1804  
BT CHROMATES  
#CHROMIUM COMPOUNDS  
POTASSIUM COMPOUNDS  
POTASSIUM COMPOUNDS  
0403 0603 1804  
BT ALUM  
NEPHELINE  
POTASSIUM BROMIDES  
POTASSIUM CHLORIDES  
POTASSIUM CHROMATES  
POTASSIUM HYDRIDES  
POTASSIUM HYDROXIDES  
POTASSIUM IODIDES  
POTASSIUM NITRATES  
POTASSIUM OXIDES  
POTASSIUM PERCHLORATES  
POTASSIUM PEROXIDES  
POTASSIUM PHOSPHATES  
POTASSIUM SILICATES  
RT ALKALI METAL COMPOUNDS  
METAL COMPOUNDS  
POTASSIUM HYDRIDES  
0603 1807  
BT HYDRIDES  
#HYDROGEN COMPOUNDS

## POTATOES

METAL HYDRIDES  
POTASSIUM COMPOUNDS  
POTASSIUM HYDROXIDES  
0603 1804  
BT ALKALIES  
HYDROXIDES  
POTASSIUM COMPOUNDS  
POTASSIUM IODIDES  
0603 1804  
BT ALKALI HALIDES  
HALIDES  
#HALOGEN COMPOUNDS  
IODIDES  
IODINE COMPOUNDS  
METAL HALIDES  
POTASSIUM COMPOUNDS  
POTASSIUM ISOTOPES  
2406  
NT POTASSIUM 38  
POTASSIUM 39  
POTASSIUM 40  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
POTASSIUM  
POTASSIUM NITRATES  
0603 1804  
BT INORGANIC NITRATES  
NITRATES  
#NITROGEN COMPOUNDS  
POTASSIUM COMPOUNDS  
POTASSIUM OXIDES  
0603 1804  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
POTASSIUM COMPOUNDS  
POTASSIUM PERCHLORATES  
0603 1804  
BT CHLORINE COMPOUNDS  
#HALOGEN COMPOUNDS  
PERCHLORATES  
POTASSIUM COMPOUNDS  
RT EXPLOSIVES  
SOLID ROCKET PROPELLANTS  
POTASSIUM PEROXIDES  
0603 1804  
BT #CHALCOGENIDES  
OXIDES  
PEROXIDES  
POTASSIUM COMPOUNDS  
POTASSIUM PHOSPHATES  
0603 1804  
BT PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
POTASSIUM COMPOUNDS  
POTASSIUM SILICATES  
0603 1804  
BT #MINERALS  
POTASSIUM COMPOUNDS  
SILICATES  
#SILICON COMPOUNDS  
POTASSIUM 38  
0603 1703 2406  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
POTASSIUM  
POTASSIUM ISOTOPES  
RADIOACTIVE ISOTOPES  
POTASSIUM 39  
0603 1703 2406  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
POTASSIUM  
POTASSIUM ISOTOPES  
1703 2406  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
POTASSIUM  
POTASSIUM ISOTOPES  
RADIOACTIVE ISOTOPES  
POTATOES  
0409  
BT FARM CROPS

# POTENTIAL

VEGETABLES  
RT FOOD  
#PLANTS (BOTANY)  
POTENTIAL  
1001 2311 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COULOMB POTENTIAL  
ELECTRIC POTENTIAL  
GROPOENTIAL  
IONIZATION POTENTIALS  
KLEIN-DUNHAM POTENTIAL  
HYOELECTRIC POTENTIALS  
NUCLEON POTENTIAL  
PLASMA POTENTIALS  
#POTENTIAL ENERGY  
POTENTIAL FIELDS  
POTENTIAL THEORY  
YUKAWA POTENTIAL  
#POTENTIAL ENERGY  
1309 2308 2404  
NT BIOELECTRIC POTENTIAL  
CONTACT POTENTIALS  
COULOMB POTENTIAL  
ELECTRIC POTENTIAL  
GROPOENTIAL HEIGHT  
IONIZATION POTENTIALS  
LIENARD POTENTIAL  
LOW VOLTAGE  
PHOTOVOLTAGES  
PLASMA POTENTIALS  
SPIKE POTENTIALS  
RT CHEMICAL ENERGY  
ELECTRIC ENERGY STORAGE  
ENERGY  
ENERGY STORAGE  
PROUDE NUMBER  
GROPOENTIAL  
INTERNAL ENERGY  
KINETIC ENERGY  
MORSE POTENTIAL  
POTENTIAL  
POTENTIAL FIELDS  
2308 2311 2401  
RT FIELD THEORY (PHYSICS)  
POTENTIAL  
POTENTIAL FLOW  
1202 2308 2311  
UF IRRROTATIONAL FLOW  
NT EQUIPOTENTIALS  
BT #FLUID FLOW  
RT CARTAN SPACE  
HEAT TRANSMISSION  
INVISCID FLOW  
VORTICITY  
POTENTIAL GRADIENTS  
0101 1202 1308 2311 2402 3408  
BT #GRADIENTS  
RT PRESSURE GRADIENTS  
SPARK GAPS  
TEMPERATURE GRADIENTS  
POTENTIAL PROBLEMS  
USE POTENTIAL THEORY  
POTENTIAL THEORY  
0101 1202 1308 1902 2311 2402  
UF POTENTIAL PROBLEMS  
RT DIFFERENTIAL EQUATIONS  
JACOBI INTEGRAL  
POTENTIAL  
STREAM FUNCTIONS (FLUIDS)  
THEORIES  
POTENTIOMETERS  
0902 0905 1002 2304  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT POTENTIOMETERS (INSTRUMENTS)  
POTENTIOMETERS (RESISTORS)  
POTENTIOMETERS (INSTRUMENTS)  
0905 1002 1406  
BT #MEASURING INSTRUMENTS  
RT BOLONETERS  
ELECTRIC POTENTIAL  
ELECTRICAL MEASUREMENT  
ELECTROMETERS  
POTENTIOMETERS  
THERMOCOUPLE PYROMETERS  
THERMOCOUPLES  
VOLTMETERS  
POTENTIOMETERS (RESISTORS)  
0905

BT #ATTENUATORS  
RESISTORS  
RT POTENTIOMETERS  
POTENTIOMETRIC ANALYSIS  
0902 0905 1002 2304  
UF POTENTIOMETRY  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
POTENTIOMETRY  
USE POTENTIOMETRIC ANALYSIS  
POTETZ AIRCRAFT  
0201 0207  
RT POTETZ 840 AIRCRAFT  
RT AIRCRAFT  
POTETZ 840 AIRCRAFT  
0207 3401  
BT #JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
POTETZ AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
POTTING COMPOUNDS  
0701 0904 0905 1410 1502 1504 1805  
RT COMPOUNDS  
ENCAPSULATING  
INSULATION  
POURING  
3407  
RT CASTING  
CASTINGS  
POWDER (PARTICLES)  
1704 1805 3203  
NT FINES  
METAL POWDER  
PLATINUM BLACK  
POWDERED ALUMINUM  
BT #PARTICLES  
RT COMPRESSIBILITY  
#DUST  
EXPLOSIVES  
FLAKES  
FLOUGH (FOOD)  
GRANULAR MATERIALS  
OBSIDIAN  
POWDER METALLURGY  
PUMICE  
SIZE SEPARATION  
POWDER METALLURGY  
1504 1701 1704  
RT #ALLOYS  
AUTOCLAVING  
CERMETS  
COMMINUTION  
COMPACTING  
#COMPOSITE MATERIALS  
ELECTRODEPOSITION  
LOW DENSITY MATERIALS  
METAL MATRIX COMPOSITES  
METAL PARTICLES  
METALLURGY  
MIXED CRYSTALS  
POROUS MATERIALS  
POWDER (PARTICLES)  
PREFORMS  
SINTERED ALUMINUM POWDER  
SINTERING  
VACUUM MELTING  
POWDERED ALUMINUM  
1504 1704  
BT ALUMINUM  
#CHEMICAL ELEMENTS  
METAL PARTICLES  
METAL POWDER  
#PARTICLES  
POWDER (PARTICLES)  
RT LITHIUM ALUMINUM HYDRIDES  
SINTERED ALUMINUM POWDER  
POWDERED METALS  
USE METAL POWDER  
POWER  
0301 0303 1902 2311 2801 2805 2808  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ELECTRIC GENERATORS  
FLUID POWER  
FLUX (RATE)  
FLUX DENSITY  
HORSEPOWER  
#RESOLUTION

# NASA THESAURUS (ALPHABETICAL LISTING)

#THRUST  
POWER AMPLIFIERS  
0905  
BT #AMPLIFIERS  
RT AMPLIDYNES  
FEEDBACK AMPLIFIERS  
MAGNETIC AMPLIFIERS  
PARAMETRIC AMPLIFIERS  
POWER GAIN  
PUSH-PULL AMPLIFIERS  
TRANSISTOR AMPLIFIERS  
TRANSISTOR AMPLIFIERS  
POWER CONDITIONING  
0301 2304  
RT CONDITIONING  
#ELECTRIC CURRENT  
#ELECTRIC GENERATORS  
ELECTRIC POTENTIAL  
ENERGY CONVERSION  
ENERGY CONVERSION EFFICIENCY  
OUTPUT  
POWER CONVERSION  
USE #ELECTRIC GENERATORS  
POWER DENSITY  
USE FLUX DENSITY  
POWER EFFICIENCY  
2203 2204 2405  
BT #EFFICIENCY  
RT COMBUSTION EFFICIENCY  
COMPRESSOR EFFICIENCY  
HORSEPOWER  
NOZZLE EFFICIENCY  
PROPELLER EFFICIENCY  
PROPULSION SYSTEM PERFORMANCE  
PROPULSIVE EFFICIENCY  
THERMODYNAMIC EFFICIENCY  
TRANSMISSION EFFICIENCY  
POWER GAIN  
0901 0902 1413  
BT AMPLIFICATION  
RT POWER AMPLIFIERS  
POWER GENERATORS  
USE #ELECTRIC GENERATORS  
POWER LIMITED SPACECRAFT  
0303 3110  
RT SPACECRAFT  
POWER LIMITERS  
0302 0303 1504  
RT #ATTENUATORS  
CLAMPING CIRCUITS  
CLIPPER CIRCUITS  
LIMITER CIRCUITS  
POWER LINES  
0904 2304  
BT #TRANSMISSION LINES  
RT BESSEL FUNCTIONS  
BUS CONDUCTORS  
CABLES  
COAXIAL CABLES  
ELECTRIC POWER TRANSMISSION  
ELECTRIC WIRE  
SUBMARINE CABLES  
POWER PLANTS  
0301 0302 1504 2203 2204 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ELECTRIC POWER PLANTS  
#ENGINES  
ENRICO FERMI ATOMIC POWER PLANT  
HALLAM NUCLEAR POWER FACILITY  
ML-1 NUCLEAR POWER PLANT  
POWER REACTORS  
2204  
RT NUCLEAR POWER REACTORS  
REACTORS  
SATURABLE REACTORS  
POWER SERIES  
1902  
NT MACLAURIN SERIES  
TAYLOR SERIES  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
REAL VARIABLES  
SERIES (MATHEMATICS)  
RT ANALYTIC FUNCTIONS  
POWER SPECTRA  
1902 2311  
RT #SPECTRA  
RT ACOUSTICS  
ENERGY SPECTRA  
FLUX DENSITY

# NASA THESAURUS (ALPHABETICAL LISTING)

LOUDNESS  
 POWER SUPPLIES  
 0701 0904 0905 0303  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AIRCRAFT ENGINES  
 #AUXILIARY POWER SOURCES  
 ELECTRIC BATTERIES  
 #ELECTRIC GENERATORS  
 ELECTRON SOURCES  
 ENERGY REQUIREMENTS  
 HEAT SOURCES  
 LINE CURRENT  
 NUCLEAR AUXILIARY POWER UNITS  
 #PLASMA POWER SOURCES  
 #PROPELLANTS  
 #RECTIFIERS  
 SOLAR GENERATORS  
 SPACECRAFT POWER SUPPLIES  
 POWER SUPPLY CIRCUITS  
 0904  
 BT #CIRCUITS  
 RT CURRENT REGULATORS  
 #RECTIFIERS  
 TRANSFORMERS  
 VOLTAGE REGULATORS  
 POWER TRANSMISSION  
 0705 0710 0901 0902 1504 2308 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BUS CONDUCTORS  
 ELECTRIC POWER TRANSMISSION  
 ELECTRICAL ENGINEERING  
 ELECTRIFICATION  
 #MECHANICAL DRIVES  
 POYNTING-ROBERTSON EFFECT  
 2902 3005 3006  
 RT EFFECTS  
 MICROMETEORITIDS  
 ORBITAL MECHANICS  
 RADIATION EFFECTS  
 ZODIACAL DUST  
 ZODIACAL LIGHT  
 POYNTING THEOREM  
 1002 2307 2402  
 BT #THEOREMS  
 RT ELECTRIC POWER  
 #ELECTROMAGNETIC RADIATION  
 ENERGY TRANSFER  
 MAXWELL EQUATION  
 VECTOR ANALYSIS  
 PPI (POSITION INDICATORS)  
 USE PLAN POSITION INDICATORS  
 PPM (MODULATION)  
 USE PULSE POSITION MODULATION  
 PRACTICES  
 USE PROCEDURES  
 PRAESPE STAR CLUSTERS  
 3001 3009  
 BT #CELESTIAL BODIES  
 STAR CLUSTERS  
 STARS  
 PRAETERSONIC DEVICES  
 2301 2312  
 RT MICROWAVE FREQUENCIES  
 PIEZOELECTRIC TRANSDUCERS  
 THIN FILMS  
 ULTRAHIGH FREQUENCIES  
 PRANDTL-HEYER EXPANSION  
 1202 1203  
 NT THERMAL BUCKLING  
 BT #EXPANSION  
 RT BLASIUS EQUATION  
 FALKNER-SKAN EQUATION  
 LAMINAR FLOW  
 METHOD OF CHARACTERISTICS  
 NEWTON PRESSURE LAW  
 SUPERSONIC FLOW  
 TWO DIMENSIONAL FLOW  
 PRANDTL NUMBER  
 1202 1203 1204 2303  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT FORCED CONVECTION  
 HEAT TRANSFER  
 INVISCID FLOW  
 MOMENTUM TRANSFER  
 NUSSELT NUMBER  
 PECLET NUMBER  
 REYNOLDS NUMBER

SCHMIDT NUMBER  
 #THERMODYNAMIC PROPERTIES  
 VISCOUS FLOW  
 PRASEODYMIUM  
 1703  
 NT PRASEODYMIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS  
 PRASEODYMIUM ISOTOPES  
 2406  
 UP PRASEODYMIUM 144  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PRASEODYMIUM  
 RARE EARTH ELEMENTS  
 PRASEODYMIUM 144  
 USE PRASEODYMIUM ISOTOPES  
 PREAMPLIFIERS  
 0701 0703 0705 0905  
 BT #AMPLIFIERS  
 RT INTERMEDIATE FREQUENCY AMPLIFIERS  
 LOW NOISE  
 MIXING CIRCUITS  
 POSTAMPLIFIERS  
 SIGNAL DETECTION  
 SIGNAL DETECTORS  
 SIGNAL RECEPTION  
 TRANSISTOR AMPLIFIERS  
 VOLTAGE AMPLIFIERS  
 PRECAMBRIAN PERIOD  
 1305  
 RT CANADIAN SHIELD  
 #GEOLOGY  
 PALEONTOLOGY  
 PRECAUTIONS  
 USE ACCIDENT PREVENTION  
 PRECESSION  
 1803 2308 3009  
 UP MOMENTUM PRECESSION  
 NT LARMOR PRECESSION  
 PROTON PRECESSION  
 BT #GYRATION  
 RT #GYROSCOPES  
 GYROSCOPIC STABILITY  
 LIBRATION  
 NUTATION  
 ROTATION  
 PRECIOUS METALS  
 USE NOBLE METALS  
 PRECIPITATION  
 2001 2003 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERM LISTED  
 BELOW)  
 RT DROP SIZE  
 ELECTRON PRECIPITATION  
 FALLING  
 HYDROMETALLURGY  
 MATERIALS RECOVERY  
 PRECIPITATION (CHEMISTRY)  
 PRECIPITATION (METEOROLOGY)  
 PHOTON PRECIPITATION  
 PRECIPITATION (CHEMISTRY)  
 0603 3407  
 RT AGGLOMERATION  
 CEMENTATION  
 COAGULATION  
 COLLOIDING  
 CONCENTRATING  
 CRYSTALLIZATION  
 #DEPOSITION  
 DISSOLVING  
 FILTRATION  
 FLOCCULATING  
 HYDROMETALLURGY  
 HYDROMETEOROLOGY  
 MATERIALS RECOVERY  
 PRECIPITATION  
 PRECIPITATORS  
 SATURATION  
 SEPARATION  
 SETTLING  
 SOLUBILITY  
 SUPERSATURATION  
 PRECIPITATION (METEOROLOGY)  
 2003  
 NT DEW  
 HAIL  
 RAIN  
 SNOW

# PREDICTION ANALYSIS TECHNIQUES

SNOW COVER  
 RT ATMOSPHERIC MOISTURE  
 CLIMATOLOGY  
 CLOUD PHYSICS  
 CLOUD SEEDING  
 CLOUDS (METEOROLOGY)  
 CUMULONIMBUS CLOUDS  
 CYCLONES  
 FLOOD PREDICTIONS  
 FLOODS  
 FOG  
 HUMIDITY  
 HYDROLOGY  
 HYDROMETEOROLOGY  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 MIST  
 MONSOONS  
 NEPHANALYSIS  
 NIMBOSTRATUS CLOUDS  
 PRECIPITATION  
 RAINSTORMS  
 SATURATION  
 #STORMS  
 STORMS (METEOROLOGY)  
 WATER  
 WEATHER  
 WEATHER FORECASTING  
 PRECIPITATION HARDENING  
 1701 1704  
 UP AGE HARDENING  
 DISPERSION PRECIPITATION HARDENING  
 STRAIN AGING  
 NT MABAGING  
 BT #HARDENING (MATERIALS)  
 RT COLD HARDENING  
 #HEAT TREATMENT  
 SOLID SOLUTIONS  
 STRAIN HARDENING  
 SUPERSATURATION  
 PRECIPITATION PARTICLE MEASUREMENT  
 1301 2001 2003  
 BT SIZE DETERMINATION  
 RT DROP SIZE  
 METEOROLOGICAL RADAR  
 PARTICLE SIZE DISTRIBUTION  
 #PARTICLES  
 PRECIPITATORS  
 0602  
 NT ELECTROSTATIC PRECIPITATORS  
 BT #SEPARATORS  
 RT AIR FILTERS  
 CONCENTRATORS  
 DUST COLLECTORS  
 PRECIPITATION (CHEMISTRY)  
 THICKENERS (EQUIPMENT)  
 PRECISION  
 3408  
 UP EXACTNESS  
 RT ACCURACY  
 ALLOWANCES  
 CONFIDENCE LIMITS  
 CONSISTENCY  
 DEFINITION  
 #DYNAMIC CHARACTERISTICS  
 ERRORS  
 HIGH RESOLUTION  
 HYSTERESIS  
 QUALITY  
 QUALITY CONTROL  
 RELIABILITY  
 #RESOLUTION  
 #SENSITIVITY  
 SHARPNESS  
 TOLERANCES (MECHANICS)  
 TRUNCATION ERRORS  
 VALIDITY  
 PRECONDITIONING  
 3407  
 BT #PREPARATION  
 RT CONDITIONING  
 PRECOOLING  
 1103 2702 2804 3303  
 BT #COOLING  
 RT REGENERATIVE COOLING  
 PREDICTION ANALYSIS TECHNIQUES  
 1905 3406  
 BT #FORECASTING  
 PERFORMANCE PREDICTION  
 SCHEDULING  
 RT ANALYZING

# PREDICTION RECORDING

PREDICTION RECORDING  
1504 1905 2001 2003  
BT RECORDING  
RT #PREDICTIONS  
#PREDICTIONS  
1406 1904 1905 3006 3406 3407  
UF PREDICTORS  
NT FLOOD PREDICTIONS  
IMPACT PREDICTION  
LINEAR PREDICTION  
PERFORMANCE PREDICTION  
ROSKO PREDICTION  
RT CONFIDENCE LIMITS  
CONTINGENCY  
ESTIMATES  
#FORECASTING  
MAXIMUM LIKELIHOOD ESTIMATES  
MISSION PLANNING  
PREDICTION RECORDING  
PROJECTION  
RISK  
TECHNOLOGICAL FORECASTING  
PREDICTORS  
USE #PREDICTIONS  
PREEMPTING  
3402 3403 3406 3407  
RT CLAIMING  
PREVENTION  
PREFIRING TESTS  
3102 3106 3301  
BT ENGINE TESTS  
RT #CAPTIVE TESTS  
CHECKOUT  
ENGINE TESTS  
#GROUND TESTS  
PREFLIGHT ANALYSIS  
PRELAUNCH TESTS  
ROCKET ENGINE DESIGN  
STATIC TESTS  
TEST FIRING  
TEST STANDS  
PREFLIGHT ANALYSIS  
0502 1904 3006 3102 3406  
RT ANALYZING  
PREFIRING TESTS  
PREFLIGHT OPERATIONS  
SYSTEMS ANALYSIS  
TESTS  
TRAJECTORY ANALYSIS  
WEIGHT ANALYSIS  
PREFLIGHT OPERATIONS  
0502 1904 3006 3102  
NT COUNTDOWN  
RT #GROUND TESTS  
OPERATIONS  
PREFLIGHT ANALYSIS  
PRELAUNCH TESTS  
REFUELING  
PREFOCUSING  
3407  
BT FOCUSING  
RT OPTICS  
PREFORMS  
1704 1805 3407  
RT BLANKS  
#COMPOSITE MATERIALS  
MOLDS  
POWDER METALLURGY  
PREGNANCY  
0404 0405  
RT BIRTH  
PREHEATERS  
USE #HEATING EQUIPMENT  
PREHEATING  
USE #HEATING  
PREIMPREGNATION  
0404 3407  
RT FILAMENT WINDING  
PREJUDICES  
0408 0410 3402 3406 3408  
RT ECONOMICS  
IRRATIONALITY  
#MANAGEMENT  
PROPERTIES  
#PSYCHOLOGY  
PRELAUNCH PROBLEMS  
0506 3102  
RT COUNTDOWN  
PRELAUNCH TESTS  
PROBLEMS  
RELIABILITY  
SPACECRAFT RELIABILITY

PRELAUNCH TESTS  
0506 1108 3102  
BT STATIC FIRING  
BT #GROUND TESTS  
#NONDESTRUCTIVE TESTS  
RT #CAPTIVE TESTS  
COLD FLOW TESTS  
COUNTDOWN  
ENGINE TESTS  
#LAUNCHING  
MISSILE TESTS  
PREFIRING TESTS  
PREFLIGHT OPERATIONS  
PRELAUNCH PROBLEMS  
STATIC TESTS  
TEST FIRING  
TEST STANDS  
PRELOADING  
USE PRESTRESSING  
PREMATURE OPERATION  
3406 3407  
RT OPERATIONS  
#PREPARATION  
PREMIXED PLANES  
3301  
BT FLAMES  
RT CARBURETORS  
FLAME PROPAGATION  
GAS MIXTURES  
MIXING  
#PREPARATION  
1502 1504 1507 3404 3407  
NT PRECONDITIONING  
PRESTRESSING  
PRETREATMENT  
PREWHIRLING  
PREWHITENING  
RT ASSEMBLING  
PREMATURE OPERATION  
PRINING  
PREPOLYMERS  
1808 1810  
NT DIMERS  
TRIMERS  
RT MONOMERS  
POLYMERS  
PRESBYOPIA  
0405 0408  
RT VISION  
PRESENTATION  
3406 3407  
RT INFORMATION  
PRESERVATIVES  
0505 1802 1808  
RT #ADDITIVES  
AGENTS  
ANTICOAGULANTS  
ANTIOXIDANTS  
NEUTRALIZERS  
PENETRANTS  
PRESERVING  
RETARDANTS  
STABILIZERS (AGENTS)  
PRESERVING  
0504 0505 0508  
RT BIOPAKS  
CONTAINERS  
CORROSION PREVENTION  
COVERINGS  
CURING  
DEGRADATION  
DEHYDRATED FOOD  
FOOD  
FREEZING  
FROZEN FOODS  
IMPREGNATING  
#IRRADIATION  
PACKAGING  
PRESERVATIVES  
RADIATION EFFECTS  
REFRIGERATING  
STORAGE  
WEATHERPROOFING  
PRESINTERING  
USE SINTERING  
PRESSES  
1504  
NT RAMS (PRESSES)  
RT COMPACTING  
HAMMERS  
MACHINE TOOLS  
PLATENS

# NASA TREASURY (ALPHABETICAL LISTING)

PRESSING  
PRESSING (FORMING)  
PUNCHES  
#TOOLS  
PRESSING  
1504 1801  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT COLD PRESSING  
COMPACTING  
COMPRESSING  
HOT PRESSING  
PLATENS  
PRESSES  
PRESSING (FORMING)  
PRESSING (FORMING)  
1504  
NT BLANKING (CUTTING)  
COINING  
STAMPING  
BT #FORMING TECHNIQUES  
RT COLD PRESSING  
COMPACTING  
EXTRUDING  
FORGING  
HOT PRESSING  
#METAL WORKING  
MOLDS  
PRESSES  
PRESSING  
SIZING (SHAPING)  
PRESSORS  
USE VASOCONSTRICTOR DRUGS  
#PRESSURE  
1202 1408 2003 2311 3408  
UF SURFACE PRESSURE  
NT ATMOSPHERIC PRESSURE  
BASE PRESSURE  
BLOOD PRESSURE  
CRITICAL PRESSURE  
DENSIFICATION  
DIFFERENTIAL PRESSURE  
DYNAMIC PRESSURE  
ELECTRON PRESSURE  
GAS PRESSURE  
HIGH ALTITUDE PRESSURE  
HIGH PRESSURE  
HIGH VACUUM  
HYDROSTATIC PRESSURE  
HYPERTENSION  
HYPOTENSION  
HYPOXEMIA  
ILLUMINANCE  
IMPACT LOADS  
INLET PRESSURE  
INTERNAL PRESSURE  
INTRACRANIAL PRESSURE  
INTRAOCULAR PRESSURE  
ISOSTATIC PRESSURE  
LOW PRESSURE  
LOW VACUUM  
LUMENS  
LUMINANCE  
LUMINOUS INTENSITY  
MIDDLE EAR PRESSURE  
OVERPRESSURE  
OXYGEN TENSION  
PARTIAL PRESSURE  
RADIATION PRESSURE  
SOUND PRESSURE  
STAGNATION PRESSURE  
STATIC PRESSURE  
SUPERCRITICAL PRESSURES  
SYSTOLIC PRESSURE  
THRUST CHAMBER PRESSURE  
TRANSIENT PRESSURES  
ULTRAHIGH VACUUM  
VACUUM  
VAPOR PRESSURE  
WALL PRESSURE  
WATER PRESSURE  
WIND PRESSURE  
BARORECEPTORS  
BLAST LOADS  
COMPRESSING  
#ENVIRONMENTS  
FORCE  
GIBBS-HELMHOLTZ EQUATIONS  
HEAD (FLUID MECHANICS)  
IMPACT  
#LOADS (FORCES)

# NASA THESAURUS (ALPHABETICAL LISTING)

NEWTON PRESSURE LAW  
 OSMOSIS  
 PRESSURE HEADS  
 PRESSURE MEASUREMENTS  
 PRESSURIZING  
 TEMPERATURE INVERSIONS  
 WEIGHT (MASS)  
 PRESSURE BREATHING  
 0303 0504  
 BT RESPIRATION  
 RT EMERGENCY BREATHING TECHNIQUES  
 LIQUID BREATHING  
 #STRESS (PHYSIOLOGY)  
 PRESSURE BROADENING  
 1411 2401 2404  
 BT LINE SPECTRA  
 #SPECTROSCOPY  
 PRESSURE CABINS  
 USE PRESSURIZED CABINS  
 PRESSURE CHAMBERS  
 0303 0408 0504  
 RT HYPERBARIC CHAMBERS  
 VACUUM CHAMBERS  
 BT #COMPARTMENTS  
 TEST CHAMBERS  
 RT AIR LOCKS  
 CHAMBERS  
 ENCLOSURES  
 PRESSURE VESSELS  
 PRESSURIZED CABINS  
 WIND TUNNEL DRIVES  
 PRESSURE COEFFICIENT  
 USE AERODYNAMIC COEFFICIENTS  
 PRESSURE DISTRIBUTION  
 0101 0102 1203 3203  
 UP PRESSURE FIELDS  
 SUPersonic PRESSURE DISTRIBUTION  
 BT #DISTRIBUTION (PROPERTY)  
 RT AERODYNAMIC COEFFICIENTS  
 AERODYNAMIC LOADS  
 AERODYNAMIC STABILITY  
 CENTER OF PRESSURE  
 DIFFERENTIAL PRESSURE  
 DISTRIBUTION  
 FIELD THEORY (PHYSICS)  
 INFLUENCE COEFFICIENT  
 INTERNAL PRESSURE  
 ISOBARS (PRESSURE)  
 LIFT  
 LOADING MOMENTS  
 #LOADS (FORCES)  
 MANOMETERS  
 MASS DISTRIBUTION  
 MOMENT DISTRIBUTION  
 NEWTON PRESSURE LAW  
 PRESSURE DRAG  
 PRESSURE DROP  
 PRESSURE GRADIENTS  
 PRESSURE MEASUREMENTS  
 PRESSURE REDUCTION  
 SHOCK WAVE PROFILES  
 STATIC LOADS  
 THEODORSEN TRANSFORMATION  
 VELOCITY DISTRIBUTION  
 VERTICAL DISTRIBUTION  
 WALL PRESSURE  
 PRESSURE DRAG  
 0101 1203  
 RT INTERFERENCE DRAG  
 SUPersonic DRAG  
 WAVE DRAG  
 BT DRAG  
 #DYNAMIC CHARACTERISTICS  
 RT AERODYNAMIC DRAG  
 FRICTION DRAG  
 PRESSURE DISTRIBUTION  
 PRESSURE DROP  
 0408 1201 1202 1203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FLUID POWER  
 #FRICTION  
 GAS FLOW  
 HEAD FLOW  
 INLET FLOW  
 PRESSURE DISTRIBUTION  
 PRESSURE GRADIENTS  
 PRESSURE OSCILLATIONS  
 PRESSURE REDUCTION  
 TWO PHASE FLOW

PRESSURE EFFECTS  
 0101 0408 1202 1203 3203  
 RT COMPRESSIBILITY EFFECTS  
 EFFECTS  
 JET BLAST EFFECTS  
 #LOADS (FORCES)  
 SUCTION  
 TEMPERATURE EFFECTS  
 TEMPERATURE INVERSIONS  
 VACUUM EFFECTS  
 WIND EFFECTS  
 PRESSURE FIELDS  
 USE PRESSURE DISTRIBUTION  
 PRESSURE GAGES  
 1202 1203 1408  
 UP BOMBS (PRESSURE GAGES)  
 PRESSURE GAUGES  
 RT ALPHATRON  
 BAROMETERS  
 BAYARD-ALPERT IONIZATION GAGES  
 IONIZATION GAGES  
 ISOTENISCOPE  
 KNUDSEN GAGES  
 MANOMETERS  
 MCLEOD GAGES  
 OSMOMETERS  
 PENNING GAGES  
 PHILIPS IONIZATION GAGES  
 PIEZOELECTRIC GAGES  
 PIEZOMETERS  
 PIRANI GAGES  
 VACUUM GAGES  
 BT #MEASURING INSTRUMENTS  
 RT BOMBS  
 BOURDON TUBES  
 FLOWMETERS  
 HYPSONOMETERS  
 PRESSURE MEASUREMENTS  
 PRESSURE RECORDERS  
 PRESSURE REGULATORS  
 PRESSURE SENSORS  
 SHOCK MEASURING INSTRUMENTS  
 STRAIN GAGE ACCELEROMETERS  
 STRAIN GAGE BALANCES  
 STRAIN GAGES  
 WEIGHT INDICATORS  
 PRESSURE GAUGES  
 USE PRESSURE GAGES  
 PRESSURE GRADIENTS  
 1202 1203 1301 3408  
 BT #GRADIENTS  
 RT ATMOSPHERIC PRESSURE  
 BATHYTHERMOGRAPHS  
 CRITICAL FLOW  
 DIFFERENTIAL PRESSURE  
 FLUID BOUNDARIES  
 #FLUID FLOW  
 FRICTION FACTOR  
 HYDRODYNAMICS  
 HYDROSTATICS  
 INLET PRESSURE  
 ISOBARS (PRESSURE)  
 KNUDSEN FLOW  
 LIQUID FLOW  
 LIQUID-LIQUID INTERFACES  
 LIQUID-VAPOR INTERFACES  
 MULTIPHASE FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 POTENTIAL GRADIENTS  
 PRESSURE DISTRIBUTION  
 PRESSURE DROP  
 PRESSURE HEADS  
 PRESSURE MEASUREMENTS  
 RANKINE-HUGONIOT RELATION  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUCTION  
 SUPERCRITICAL FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 VENTURI TUBES  
 PRESSURE HEADS  
 1202 1203 1408  
 UP HEAD (PRESSURE)  
 RT CENTER OF PRESSURE  
 ELEVATION  
 #FLUID FLOW  
 HYDRAULICS  
 HYDRODYNAMICS  
 HYDROSTATIC PRESSURE

## PRESSURE REGULATORS

HYDROSTATICS  
 LIQUID FLOW  
 #PRESSURE  
 PRESSURE GRADIENTS  
 PRESSURE MEASUREMENTS  
 PRESSURE MEASUREMENTS  
 1202 1203 1408  
 UP TONOMETRY  
 RT #MECHANICAL MEASUREMENT  
 RT ACOUSTIC MEASUREMENTS  
 BAROMETERS  
 BOURDON TUBES  
 DIFFERENTIAL PRESSURE  
 FLOW MEASUREMENT  
 FLOWMETERS  
 IMPEDANCE MEASUREMENTS  
 IONIZATION GAGES  
 KNUDSEN GAGES  
 MANOMETERS  
 MCLEOD GAGES  
 MEASUREMENT  
 NOISE METERS  
 PHILIPS IONIZATION GAGES  
 PIRANI GAGES  
 PITOT TUBES  
 PNEUMATIC PROBES  
 #PRESSURE  
 PRESSURE DISTRIBUTION  
 PRESSURE GAGES  
 PRESSURE GRADIENTS  
 PRESSURE HEADS  
 PRESSURE RECORDERS  
 PRESSURE SENSORS  
 VACUUM  
 VACUUM GAGES  
 VELOCITY  
 VELOCITY MEASUREMENT  
 VENTURI TUBES  
 WEIGHT INDICATORS  
 WIND TUNNEL CALIBRATION  
 PRESSURE MICROPHONES  
 USE MICROPHONES  
 PRESSURE OSCILLATIONS  
 1201 1202 1203 1408 3301  
 BT #OSCILLATIONS  
 RT COMBUSTION STABILITY  
 FLAME PROPAGATION  
 PRESSURE DROP  
 PRESSURE PULSES  
 TURBULENT FLOW  
 PRESSURE PROBES  
 USE PRESSURE SENSORS  
 PRESSURE PULSES  
 1201 1202 1203  
 RT BLAST LOADS  
 FLAME PROPAGATION  
 PRESSURE OSCILLATIONS  
 SHOCK WAVES  
 PRESSURE RECORDERS  
 1202 1203 1408  
 BT #RECORDING INSTRUMENTS  
 RT PRESSURE GAGES  
 PRESSURE MEASUREMENTS  
 PRESSURE SENSORS  
 PRESSURE RECOVERY  
 1201 1202 1203  
 RT DIFFUSERS  
 EXPLOSIVE DECOMPRESSION  
 FLUID AMPLIFIERS  
 INLET PRESSURE  
 RECOVERY  
 PRESSURE REDUCTION  
 0101 0102 0104 1203  
 UP BLEED-OFF  
 DECOMPRESSION  
 DEFLATING  
 DEPRESSURIZATION  
 RT EXPLOSIVE DECOMPRESSION  
 RT BLEEDING  
 COMPRESSING  
 GAS EXPANSION  
 INFLATING  
 PRESSURE DISTRIBUTION  
 PRESSURE DROP  
 REDUCTION  
 PRESSURE REGULATORS  
 0303 1201 1202 1203 1408 1504  
 BT AUTOMATIC CONTROL VALVES  
 CONTROL EQUIPMENT  
 #REGULATORS  
 #VALVES  
 RT #CONTROLLERS

# PRESSURE RELIEF VALVES

FLOW REGULATORS  
 FUEL TANK PRESSURIZATION  
 OXYGEN REGULATORS  
 PRESSURE GAGES  
 PRESSURE SWITCHES  
 PRESSURIZING  
 RELIEF VALVES  
 PRESSURE RELIEF VALVES  
 USE RELIEF VALVES  
 PRESSURE SENSORS  
 1202 1203 1408  
 UF PRESSURE PROBES  
 PRESSURE TRANSDUCERS  
 BT BOURDON TUBES  
 RT #TRANSDUCERS  
 RT ELECTROACOUSTIC WAVES  
 PIEZOELECTRIC GAGES  
 PRESSURE GAGES  
 PRESSURE MEASUREMENTS  
 PRESSURE RECORDERS  
 QUARTZ TRANSDUCERS  
 RAKES  
 #SHOCK WAVE GENERATORS  
 TRANSIENT PRESSURES  
 TRANSIENT RESPONSE  
 ULTRASOUND WAVE TRANSDUCERS  
 PRESSURE SUITS  
 0401 0504 0506 0508  
 RT SPACE SUITS  
 BT #CLOTHING  
 PROTECTIVE CLOTHING  
 SUITS  
 RT FLIGHT CLOTHING  
 HELMETS  
 INFLATABLE STRUCTURES  
 LIFE SUPPORT SYSTEMS  
 PORTABLE LIFE SUPPORT SYSTEMS  
 SAFETY DEVICES  
 PRESSURE SWITCHES  
 0902 0904 1001 1504  
 BT CONTROL EQUIPMENT  
 #SWITCHES  
 RT ELECTRIC SWITCHES  
 PRESSURE REGULATORS  
 PRESSURE TRANSDUCERS  
 USE PRESSURE SENSORS  
 PRESSURE VESSEL DESIGN  
 1103 1202 1203 1504 3404  
 BT STRUCTURAL DESIGN  
 RT PERFORATED SHELLS  
 PRESSURE VESSELS  
 #SHELLS (STRUCTURAL FORMS)  
 PRESSURE VESSELS  
 1103 1504 3202  
 RT #ACCUMULATORS  
 AUTOCLAVES  
 BELLS  
 BOILERS  
 BULBS  
 CONTAINERS  
 DOMES (STRUCTURAL FORMS)  
 FUEL TANK PRESSURIZATION  
 FUEL TANKS  
 HEMISPHERE CYLINDER BODIES  
 ISOTENSOID STRUCTURES  
 PRESSURE CHAMBERS  
 PRESSURE VESSEL DESIGN  
 PROPELLANT TANKS  
 REACTOR MATERIALS  
 SHALLOW SHELL EQUATIONS  
 SPHERICAL TANKS  
 STORAGE TANKS  
 #TANKS (CONTAINERS)  
 WALL PRESSURE  
 WIND TUNNEL WALLS  
 PRESSURE WAVES  
 USE #ELASTIC WAVES  
 PRESSURE WELDING  
 1203 1507  
 RT DIFFUSION WELDING  
 EXPLOSIVE WELDING  
 ULTRASONIC WELDING  
 BT #WELDING  
 RT ARC WELDING  
 ELECTRIC WELDING  
 FLASH WELDING  
 FUSION WELDING  
 GAS WELDING  
 SPOT WELDS  
 PRESSURIZED CABINS  
 0303 0401 0504 0506 0507  
 UF PRESSURE CABINS

BT #COMPARTMENTS  
 RT AIRCRAFT COMPARTMENTS  
 CABIN ATMOSPHERES  
 CABINS  
 COCKPITS  
 EMERGENCY LIFE SUSTAINING SYSTEMS  
 ENVIRONMENTAL CONTROL  
 ESCAPE CAPSULES  
 EXPLOSIVE DECOMPRESSION  
 LIFE SUPPORT SYSTEMS  
 OXYGEN SUPPLY EQUIPMENT  
 PRESSURE CHAMBERS  
 SPACECRAFT CABIN ATMOSPHERES  
 SPACECRAFT CABINS  
 PRESSURIZED WATER REACTORS  
 2203 2204 3404  
 RT SPECTRAL SHIFT CONTROL REACTOR  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 WATER COOLED REACTORS  
 RT NUCLEAR POWER REACTORS  
 PRESSURIZING  
 0303 1202 1203 3404  
 NT FUEL TANK PRESSURIZATION  
 RT #ACCUMULATORS  
 DENSIIFICATION  
 EXPULSION  
 EXPULSION BLADDERS  
 GAS GENERATORS  
 GAS INJECTION  
 INFLATING  
 #PRESSURE  
 PRESSURE REGULATORS  
 STIMULATION  
 PRESTON TUBES  
 USE PITOT TUBES  
 SPEED INDICATORS  
 PRESTRAINING  
 USE PRESTRESSING  
 PRESTRESSING  
 3110 3202  
 UF PRELOADING  
 PRESTRAINING  
 PRETWISTING  
 BT #PREPARATION  
 PRETREATMENT  
 RT ELASTIC DEFORMATION  
 ISOTENSOID STRUCTURES  
 #STRESSES  
 STRUCTURAL STRAIN  
 PRETESTS  
 USE TESTS  
 PRETREATMENT  
 3404 3407  
 NT PRESTRESSING  
 BT #PREPARATION  
 RT PREVENTION  
 PRIMING  
 PRETWISTING  
 USE PRESTRESSING  
 TWISTING  
 PREVENTION  
 1505 3406 3407  
 NT ACCIDENT PREVENTION  
 CORROSION PREVENTION  
 FIRE PREVENTION  
 ICE PREVENTION  
 RT BLOCKING  
 INHIBITION  
 #POLLUTION  
 PREEMPTING  
 PRETREATMENT  
 #PROTECTION  
 REDUCTION  
 RESISTANCE  
 RETARDING  
 SAFETY  
 STOPPING  
 PREWHIRLING  
 3407  
 BT #PREPARATION  
 PREWHITENING  
 3407  
 BT #PREPARATION  
 RT COLOR  
 TREATMENT  
 PRIBRAM METEORITE  
 3005  
 BT #CELESTIAL BODIES  
 CHONDRITES  
 METEORITES  
 STONY METEORITES

# NASA THESAURUS (ALPHABETICAL LISTING)

RT BOLIDES  
 METEOR TRAILS  
 PRIMARY BATTERIES  
 0302 0904  
 (NON-RECHARGEABLE BATTERIES)  
 RT ALKALINE BATTERIES  
 DRY CELLS  
 MAGNESIUM CELLS  
 METAL AIR BATTERIES  
 NICKEL ZINC BATTERIES  
 THERMAL BATTERIES  
 ZINC-OXYGEN BATTERIES  
 RT DIRECT POWER GENERATORS  
 ELECTRIC BATTERIES  
 #ELECTRIC GENERATORS  
 #ELECTROCHEMICAL CELLS  
 RT ELECTROLYTES  
 STORAGE BATTERIES  
 WET CELLS  
 PRIMARY COSMIC RAYS  
 2901  
 UF HEAVY COSMIC RAY PRIMARIES  
 NT SOLAR COSMIC RAYS  
 BT CORPUSCULAR RADIATION  
 COSMIC RAYS  
 #EXTRATERRESTRIAL RADIATION  
 #IONIZING RADIATION  
 #PARTICLES  
 RT COSMIC RAY ALBEDO  
 HEAVY NUCLEI  
 SECONDARY COSMIC RAYS  
 PRIMATES  
 0402  
 RT BABOONS  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 PRIMERS  
 1802 3302  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ENGINE PRIMERS  
 PRIMERS (COATINGS)  
 PRIMERS (EXPLOSIVES)  
 PRIMERS (COATINGS)  
 1802  
 BT #COATINGS  
 PROTECTIVE COATINGS  
 RT DOPES  
 FILLERS  
 FINISHES  
 LACQUERS  
 METAL COATINGS  
 PAINTS  
 PRIMERS  
 SPRAYED COATINGS  
 SUBSTRATES  
 VARNISHES  
 PRIMERS (EXPLOSIVES)  
 3302  
 BT #EXPLOSIVE DEVICES  
 #IGNITERS  
 INITIATORS (EXPLOSIVES)  
 RT CAPS (EXPLOSIVES)  
 DETONATION  
 DETONATORS  
 EXPLODING WIRES  
 PERCUSSION  
 PRIMERS  
 SQUIBS  
 PRIMING  
 1504 1802 3302 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COATING  
 #COATINGS  
 INITIATION  
 #PREPARATION  
 PRETREATMENT  
 STARTING  
 PRINCETON SAILWINGS  
 USE SAILWINGS  
 PRINCIPLES  
 1902 2311 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT LOGIC  
 MATHEMATICS

# NASA THESAURUS (ALPHABETICAL LISTING)

**PRINTED CIRCUITS**  
 0902 0903 1002  
 NT LARGE SCALE INTEGRATION  
 MEDIUM SCALE INTEGRATION  
 BT #CIRCUITS  
 RT BREADBOARD MODELS  
 CIRCUIT BOARDS  
 ELECTRONIC PACKAGING  
 INTEGRATED CIRCUITS  
 MINIATURE ELECTRONIC EQUIPMENT  
 #MINIATURIZATION  
 PRINTED RESISTORS  
 SUBMINIATURIZATION  
 THICK FILMS  
 TRANSISTOR CIRCUITS  
**PRINTED RESISTORS**  
 0801 0902 0905  
 BT #ATTENUATORS  
 RESISTORS  
 RT #MINIATURIZATION  
 PRINTED CIRCUITS  
**PRINTERS**  
 0803  
 NT PRINTERS (DATA PROCESSING)  
 TELEPRINTERS  
 RT CATHODE RAY TUBES  
 #DATA PROCESSING EQUIPMENT  
 PLOTTERS  
 PRINTING  
 PROJECTORS  
 #TYPEWRITERS  
**PRINTERS (DATA PROCESSING)**  
 0801  
 BT AUXILIARY EQUIPMENT (COMPUTERS)  
 #DATA PROCESSING EQUIPMENT  
 PRINTERS  
 RT AUTOMATIC TYPEWRITERS  
 AUXILIARY EQUIPMENT (COMPUTERS)  
 COMPUTERS  
 #DISPLAY DEVICES  
 PRINTOUTS  
 READOUT  
 TELEPRINTERS  
**PRINTING**  
 0802 1504  
 UP PHOTOMECHANICS  
 NT LITHOGRAPHY  
 RT BINDING  
 CONTRAST  
 ELECTRONOGRAPHY  
 ENGRAVING  
 INKS  
 LEGIBILITY  
 PHOTOENGRAVING  
 PHOTOGRAPHIC PROCESSING  
 PHOTOMECHANICAL EFFECT  
 PLOTTING  
 PRINTERS  
 READING  
 REPRODUCTION (COPYING)  
**PRINTOUTS**  
 0802 0803  
 RT FORMAT  
 LISTS  
 OUTPUT  
 PRINTERS (DATA PROCESSING)  
 READOUT  
 TABLES (DATA)  
**PRIORITIES**  
 3401 3406  
 RT ENGINEERING MANAGEMENT  
 PROJECT PLANNING  
 RESEARCH MANAGEMENT  
 RESOURCE ALLOCATION  
 SEQUENCING  
**PRISMATIC BARS**  
 1413 1504 1703 1805 2308 3203  
 BT BARS  
 #OPTICAL EQUIPMENT  
 PRISMS  
**PRISMS**  
 1411 2306 2310 2601  
 NT PRISMATIC BARS  
 BT #OPTICAL EQUIPMENT  
 RT PHOTOELASTICITY  
 #REFRACTION  
**PRIVATE AIRCRAFT**  
 USE GENERAL AVIATION AIRCRAFT  
**PRIVATE AVIATION**  
 USE CIVIL AVIATION  
 GENERAL AVIATION AIRCRAFT

**PROBABILITY**  
 USE PROBABILITY THEORY  
 PROBABILITY DENSITY FUNCTIONS  
 1902 1905  
 NT NORMAL DENSITY FUNCTIONS  
 PEARSON DISTRIBUTIONS  
 RAYLEIGH DISTRIBUTION  
 WEIBULL DENSITY FUNCTIONS  
 BT #FUNCTIONS (MATHEMATICS)  
 #STATISTICAL ANALYSIS  
 RT BINOMIAL THEOREM  
 CENSORED DATA (MATHEMATICS)  
 CONTINUITY (MATHEMATICS)  
 DISCRETE FUNCTIONS  
 EVENTS  
 EXPECTANCY HYPOTHESIS  
 EXPONENTIAL FUNCTIONS  
 FAILURE ANALYSIS  
 GAS DENSITY  
 MILLS RATIO  
 PROBABILITY DISTRIBUTION FUNCTIONS  
 QUANTILES  
**PROBABILITY DISTRIBUTION FUNCTIONS**  
 1902 1905  
 RT #FUNCTIONS (MATHEMATICS)  
 #STATISTICAL ANALYSIS  
 STATISTICAL DISTRIBUTIONS  
 RT DISCRETE FUNCTIONS  
 PROBABILITY DENSITY FUNCTIONS  
**PROBABILITY THEORY**  
 1902 1905  
 UP PROBABILITY  
 STATISTICAL PROBABILITY  
 UNCERTAINTY  
 RT APPLICATIONS OF MATHEMATICS  
 BINOMIAL THEOREM  
 BOREL SETS  
 COMBINATORIAL ANALYSIS  
 CONFIDENCE  
 CONJUNCTION  
 CONSECUTIVE EVENTS  
 CONTINUOUS  
 CORRELATION  
 DECISION THEORY  
 DISTRIBUTION FUNCTIONS  
 DUPLICATION DIFFERENTIAL EQUATION  
 EINSTEIN EQUATIONS  
 ERGODIC PROCESS  
 ERROR ANALYSIS  
 EVENTS  
 EXTREMUM VALUES  
 #FORECASTING  
 GAME THEORY  
 INDICATION  
 INFINITY  
 INFORMATION THEORY  
 ITERATION  
 MATHEMATICS  
 MAXWELL-BOLTZMANN DENSITY FUNCTION  
 MINKOWSKI SPACE  
 MONTE CARLO METHOD  
 OPERATIONS RESEARCH  
 POPULATION THEORY  
 QUALITY CONTROL  
 RANDOM ERRORS  
 RANDOM NOISE  
 RELIABILITY  
 SAMPLING  
 #STATISTICAL ANALYSIS  
 STATISTICAL DISTRIBUTIONS  
 STATISTICS  
 STIELTJES INTEGRAL  
 #STOCHASTIC PROCESSES  
 SUBGROUPS  
 THEORIES  
 TRANSITION PROBABILITIES  
 TRAVELING SALESMAN PROBLEM  
 UNIQUENESS THEOREM  
**PROBES**  
 1406 1409 1413 1504 3108  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT GAS DETECTORS  
 #MEASURING INSTRUMENTS  
 PIONEER 8 SPACE PROBE  
 PIONEER 9 SPACE PROBE  
 REMOTE SENSORS  
 SONDES  
 SPACE PROBES  
 #TRANSDUCERS

## PROCUREMENT

**PROBLEM SOLVING**  
 0802 1902 3404 3406  
 UP RESOLVENTS  
 UNKNOWN  
 NT ASYMPTOTIC METHODS  
 ITERATIVE SOLUTION  
 THEOREM PROVING  
 BT #LEARNING  
 RT APPROXIMATION  
 DECISION MAKING  
 EXISTENCE THEOREMS  
 GROUP DYNAMICS  
 ITERATION  
 LEARNING THEORY  
 #MANAGEMENT  
 NAZE LEARNING  
 METHODOLOGY  
 SOLUTION  
**PROBLEMS**  
 1902 2311 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOLZA PROBLEMS  
 BOUNDARY VALUE PROBLEMS  
 CAUCHY PROBLEM  
 CHAPMAN-PERRARO PROBLEM  
 DIRICHLET PROBLEM  
 FOUR BODY PROBLEM  
 ISOPERIMETRIC PROBLEM  
 MANY BODY PROBLEM  
 MAYER PROBLEM  
 NEUMANN PROBLEM  
 OPERATIONAL PROBLEMS  
 POINCARÉ PROBLEM  
 PRELAUNCH PROBLEMS  
 THREE BODY PROBLEM  
 TRAVELING SALESMAN PROBLEM  
 TWO BODY PROBLEM  
**PROCEDURES**  
 3406  
 UP METHODS  
 PRACTICES  
 NT FINITE ELEMENT METHOD  
 OPTICAL CORRECTION PROCEDURE  
 RT PROCUREMENT POLICY  
 SYSTEMS ANALYSIS  
**PROCEDINGS**  
 3405  
 BT #DOCUMENTS  
 LITERATURE  
 RT CONFERENCES  
 CONGRESS  
 DOCUMENTATION  
 PAPERS  
 REPORTS  
**PROCESSES**  
 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ENTROPIC PROCESSES  
 ORNSTEIN-UHLENBECK PROCESS  
 PRODUCT DEVELOPMENT  
 QUALITY CONTROL  
 SOL-GEL PROCESSES  
 UNKLAPP PROCESS  
**PROCESSING**  
 0802 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BATCH PROCESSING  
 #DATA PROCESSING  
 MANUFACTURING  
 MATERIALS RECOVERY  
 OPTICAL DATA PROCESSING  
 PHOTOGRAPHIC PROCESSING  
 PRODUCTION ENGINEERING  
 REFINING  
 SETTLING  
 SIGNAL PROCESSING  
**PROCESSORS (COMPUTERS)**  
 USE CENTRAL PROCESSING UNITS  
 COMPUTERS  
**PROCUREMENT**  
 3406  
 RT GOVERNMENT PROCUREMENT  
 CONTRACTS  
 EQUIPMENT SPECIFICATIONS  
 GOVERNMENT/INDUSTRY RELATIONS  
 PROCUREMENT MANAGEMENT

# PROCUREMENT MANAGEMENT

RECEIVING  
SERVICES  
SPECIFICATIONS  
SUBCONTRACTS  
PROCUREMENT MANAGEMENT  
3402 3404 3406  
BT #MANAGEMENT  
RT ALLOCATIONS  
BUDGETING  
BUDGETS  
COMMODITIES  
FEDERAL BUDGETS  
FINANCIAL MANAGEMENT  
INVENTORY MANAGEMENT  
PROCUREMENT  
PRODUCTS  
SERVICES  
PROCUREMENT POLICY  
3401 3402 3404 3406  
BT POLICIES  
RT DECISIONS  
#MANAGEMENT  
PROCEDURES  
REGULATIONS  
#RULES  
PRODUCT DESIGN  
USE PRODUCT DEVELOPMENT  
PRODUCT DEVELOPMENT  
1505 3404 3406  
UP ENGINEERING DEVELOPMENT  
PRODUCT DESIGN  
NT WEAPONS DEVELOPMENT  
RT AIRCRAFT DESIGN  
AIRCRAFT PRODUCTION  
AMPLIFIER DESIGN  
ANTENNA DESIGN  
BREADBOARD MODELS  
COMMERCE  
COMPUTER DESIGN  
CONSUMERS  
DESIGN  
DEVELOPMENT  
ENGINE DESIGN  
HELICOPTER DESIGN  
INVENTIONS  
LENS DESIGN  
#MANAGEMENT  
MARKET RESEARCH  
MARKETING  
PATENT APPLICATIONS  
PATENT POLICY  
PILOT PLANTS  
PROCESSES  
PRODUCTION  
PRODUCTION ENGINEERING  
QUALITY  
QUALITY CONTROL  
REACTOR DESIGN  
RELIABILITY  
SATELLITE DESIGN  
SPACECRAFT DESIGN  
STANDARDIZATION  
STRUCTURAL DESIGN  
PRODUCTION  
3404 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIRCRAFT PRODUCTION  
OUTPUT  
PRODUCT DEVELOPMENT  
PRODUCTION ENGINEERING  
PRODUCTION PLANNING  
RESERVES  
#TOOLS  
PRODUCTION ENGINEERING  
1504 3404  
UP PRODUCTION METHODS  
NT PRODUCTION PLANNING  
RT AIRCRAFT PRODUCTION  
AIRPLANE PRODUCTION COSTS  
CAPACITY  
ENGINEERING  
HUMAN FACTORS ENGINEERING  
#MANAGEMENT  
NUMERICAL CONTROL  
OPERATIONS  
PLANNING  
PROCESSING  
PRODUCT DEVELOPMENT  
PRODUCTION  
PRODUCTIVITY

PRODUCTS  
SCHEDULING  
STANDARDIZATION  
PRODUCTION MANAGEMENT  
3404 3406  
BT #MANAGEMENT  
RT EMPLOYEE RELATIONS  
ESTIMATES  
FABRICATION  
INDUSTRIAL MANAGEMENT  
MANUFACTURING  
PRODUCTION PLANNING  
QUALITY CONTROL  
RELIABILITY  
#RESOURCES  
SAFETY MANAGEMENT  
PRODUCTION METHODS  
USE PRODUCTION ENGINEERING  
PRODUCTION PLANNING  
3404  
BT MANAGEMENT PLANNING  
PLANNING  
PRODUCTION ENGINEERING  
RT PRODUCTION  
PRODUCTION MANAGEMENT  
PRODUCTIVITY  
3402 3406  
RT ALLOWANCES  
#EFFICIENCY  
MORALE  
PRODUCTION ENGINEERING  
RELIABILITY  
PRODUCTS  
3402 3404  
RT COMMODITIES  
OUTPUT  
PROCUREMENT MANAGEMENT  
PRODUCTION ENGINEERING  
QUALITY CONTROL  
RESOURCE ALLOCATION  
SERVICES  
PROFICIENCY  
USE ABILITIES  
PROFICIENCY MEASUREMENT  
USE #HUMAN PERFORMANCE  
PERFORMANCE TESTS  
PROFILES  
1407 1412 1902 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #AIRFOIL PROFILES  
ANGLES (GEOMETRY)  
CURVATURE  
DELINEATION  
#DISTRIBUTION (PROPERTY)  
#GEOMETRY  
#GRADIENTS  
LINE SHAPE  
#PLANFORMS  
PROFILOMETERS  
SEARCH PROFILES  
SHAPES  
SHOCK WAVE PROFILES  
SLOPES  
STREAMLINING  
TOPOGRAPHY  
WIND PROFILES  
PROFILOMETERS  
1406 1704  
BT #MEASURING INSTRUMENTS  
RT PROFILES  
ROUGHNESS  
SHAPES  
#SURFACE PROPERTIES  
SURFACE ROUGHNESS  
PROGENY  
0404 0405  
RT CHILDREN  
PROGNOSIS  
0405 3406  
RT DIAGNOSIS  
PROGRAM MANAGEMENT  
USE PROJECT MANAGEMENT  
PROGRAM TREND LINE ANALYSIS  
0802 3405 3406  
RT CRITICAL PATH METHOD  
MANAGEMENT PLANNING  
PERT  
#PROGRAMS  
PROJECT MANAGEMENT

# NASA THESAURUS (ALPHABETICAL LISTING)

PROGRAMMED INSTRUCTION  
0802  
RT COMPILERS  
COMPUTER PROGRAMMING  
#COMPUTER PROGRAMS  
PROGRAMMERS  
0802 0803  
BT #PERSONNEL  
RT CODERS  
COMPUTER PROGRAMMING  
PROGRAMMING  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
NT QUADRATIC PROGRAMMING  
RT COGO (PROGRAMMING LANGUAGE)  
COMPUTER PROGRAMMING  
DYNAMIC PROGRAMMING  
LINEAR PROGRAMMING  
MICROPROGRAMMING  
MULTIPROGRAMMING  
NONLINEAR PROGRAMMING  
PROGRAMMING (SCHEDULING)  
PROGRAMMING (SCHEDULING)  
3406  
NT THRUST PROGRAMMING  
RT CRITICAL PATH METHOD  
PROGRAMMING  
STEPS  
#PROGRAMS  
0802 3406 3409  
NT ADVENT PROJECT  
AGENA B RANGER PROGRAM  
ALARM PROJECT  
APOLLO APPLICATIONS PROGRAM  
APOLLO PROJECT  
ARGUS PROJECT  
ARMY-NAVY INSTRUMENTATION PROGRAM  
ASSET PROJECT  
BABY PROJECT  
BEAGLE PROJECT  
BIG SHOT PROJECT  
BIOASTRONAUTICAL ORBITAL SPACE  
SYSTEM  
BIOS PROJECT  
BUBBLEBEE PROJECT  
CENTAUR PROJECT  
CONSAT PROGRAM  
DEFENDER PROJECT  
DEFENSE PROGRAM  
DOWNRANGE ANTI-MISSILE MEASUREMENT  
PROGRAM  
EARTH RESOURCES PROGRAM  
ECHO PROJECT  
ECLIPSE PROJECT  
EUROPEAN SPACE PROGRAMS  
GEMINI PROJECT  
GEOGRAPHIC APPLICATIONS PROGRAM  
GULLIVER PROGRAM  
HARVARD RADIO METEOR PROJECT  
JUPITER PROJECT  
LUNAR PROGRAMS  
MACHINE-INDEPENDENT PROGRAMS  
MARINER PROGRAM  
MARS 69 PROJECT  
MARS 71 PROJECT  
MERCURY PROJECT  
NASA PROGRAMS  
NATIONAL LAUNCH VEHICLE PROGRAM  
NEW MOONS PROJECT  
NIKE PROJECT  
NIMBUS PROJECT  
PIONEER PROJECT  
PROJECTS  
RADAR TARGET SCATTER SITE PROGRAM  
RADIO ATTENUATION MEASUREMENT  
PROJECT  
RAND PROJECT  
RANGER PROJECT  
ROVER PROJECT  
SATURN PROJECT  
SCANNER PROJECT  
SCOUT PROJECT  
SKYLAB PROGRAM  
SPACE PROGRAMS  
SQUID PROJECT  
SUBMARINE INTEGRATED CONTROL  
PROJECT  
SUCCESS PROJECT  
SURVEYOR PROJECT  
SYNCHRONOUS COMMUNICATIONS  
SATELLITE PROJ



# NASA THESAURUS (ALPHABETICAL LISTING)

TEKITE PROJECT  
 TELSTAR PROJECT  
 TIROS PROJECT  
 TITAN PROJECT  
 TRAP PROGRAM  
 U.S.S.R. SPACE PROGRAM  
 UNIVERSITY PROGRAM  
 VANGUARD PROJECT  
 VOYAGER PROJECT  
 WEST FORD PROJECT  
 WHIRLWIND PROJECT  
 RT BUREAUS (ORGANIZATIONS)  
 #COMPUTER PROGRAMS  
 #INVESTIGATION  
 MISSION PLANNING  
 MISSIONS  
 OPERATIONS  
 PROGRAM TREND LINE ANALYSIS  
 RESEARCH AND DEVELOPMENT  
 RESEARCH PROJECTS  
 SOURCE PROGRAMS  
 PROGRESS  
 3406 3408  
 RT ECONOMICS  
 #MANAGEMENT  
 PLANNING  
 PROPERTIES  
 PROGRESSIONS  
 1902 1903  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 REAL VARIABLES  
 SERIES (MATHEMATICS)  
 PROHIBITION  
 3403  
 RT LEGAL LIABILITY  
 PENALTIES  
 POLICIES  
 REGULATIONS  
 PROJECT MANAGEMENT  
 3406  
 UP PROGRAM MANAGEMENT  
 RT COMMERCE  
 CONTRACT MANAGEMENT  
 CRITICAL PATH METHOD  
 GERT  
 #INTERFACES  
 MANAGEMENT PLANNING  
 MANAGEMENT SYSTEMS  
 MISSION PLANNING  
 PERT  
 PROGRAM TREND LINE ANALYSIS  
 RESEARCH AND DEVELOPMENT  
 RESEARCH PROJECTS  
 WEAPON SYSTEM MANAGEMENT  
 PROJECT PLANNING  
 3401 3404 3406 3409  
 BT MANAGEMENT PLANNING  
 PLANNING  
 RT ALLOCATIONS  
 BUDGETING  
 DECISIONS  
 ESTIMATES  
 #FORECASTING  
 GOALS  
 #MANAGEMENT  
 MISSIONS  
 OPERATIONS RESEARCH  
 PRIORITIES  
 PROJECTED AREAS  
 USE AREA  
 PROJECTIVE GEOMETRY  
 PROJECTILE CRATERING  
 3110 3201  
 UP HYPERVELOCITY CRATERING  
 BT CRATERING  
 RT HYPERVELOCITY IMPACT  
 HYPERVELOCITY PROJECTILES  
 METEORITE CRATERS  
 METEORITIC DAMAGE  
 METEOROID HAZARDS  
 PROJECTILE PENETRATION  
 USE TERMINAL BALLISTICS  
 PROJECTILES  
 3101 3106 3108  
 NT HYPERVELOCITY PROJECTILES  
 SABOT PROJECTILES  
 RT AMMUNITION  
 BALLISTICS  
 BOMBS (ORDNANCE)  
 CARTRIDGES  
 FINNED BODIES

GUNFIRE  
 GUNS (ORDNANCE)  
 INCENDIARY AMMUNITION  
 NUCLEAR WEAPONS  
 PYROTECHNICS  
 SHAPED CHARGES  
 SHRAPNEL  
 TERMINAL BALLISTICS  
 TERRADYNAMICS  
 WARHEADS  
 #WEAPONS  
 PROJECTION  
 0702 0804 1303 1902 2311 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DESCRIPTIVE GEOMETRY  
 DRAWINGS  
 #FORECASTING  
 GRAPHIC ARTS  
 ILLUMINATING  
 MAGNIFICATION  
 #PREDICTIONS  
 PROJECTORS  
 TRENDS  
 PROJECTIVE DIFFERENTIAL GEOMETRY  
 USE DIFFERENTIAL GEOMETRY  
 PROJECTIVE GEOMETRY  
 PROJECTIVE GEOMETRY  
 1902  
 UP PROJECTED AREAS  
 PROJECTIVE DIFFERENTIAL GEOMETRY  
 NT MERCATOR PROJECTION  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 RT ANALYTIC GEOMETRY  
 DESCRIPTIVE GEOMETRY  
 RECIPROCAL THEOREMS  
 PROJECTORS  
 0202 0701 1101 1407 1412 2311  
 (LIGHT AND IMAGE)  
 RT BEACONS  
 ILLUMINATING  
 LUMINAIRES  
 MOTION PICTURES  
 PHOTOGRAPHY  
 #PHOTOGRAPHIC EQUIPMENT  
 #PHOTOGRAPHY  
 PRINTERS  
 PROJECTION  
 SEARCHLIGHTS  
 PROJECTS  
 3406 3409  
 NT ADVENT PROJECT  
 AGENA B RANGER PROGRAM  
 ALARM PROJECT  
 APOLLO PROJECT  
 ARGUS PROJECT  
 ASSET PROJECT  
 BABY PROJECT  
 BEAGLE PROJECT  
 BIG SHOT PROJECT  
 BIOS PROJECT  
 BUMBLEBEE PROJECT  
 CENTAUR PROJECT  
 DEFENDER PROJECT  
 ECHO PROJECT  
 ECLIPSE PROJECT  
 GEMINI PROJECT  
 HARVARD RADIO METEOR PROJECT  
 JUPITER PROJECT  
 MARS 69 PROJECT  
 MARS 71 PROJECT  
 MERCURY PROJECT  
 NEW MOONS PROJECT  
 NIKE PROJECT  
 NIMBUS PROJECT  
 ORBITER PROJECT  
 PIONEER PROJECT  
 RADIO ATTENUATION MEASUREMENT  
 PROJECT  
 RAND PROJECT  
 RANGER PROJECT  
 ROVER PROJECT  
 SATURN PROJECT  
 SCANNER PROJECT  
 SCOUT PROJECT  
 SQUID PROJECT  
 SUBMARINE INTEGRATED CONTROL  
 PROJECT  
 SUCCESS PROJECT  
 SURVEYOR PROJECT

## PROPAGATION

SYNCHRONOUS COMMUNICATIONS  
 SATELLITE PROJ  
 TELSTAR PROJECT  
 THEMIS PROJECT  
 TIROS PROJECT  
 TITAN PROJECT  
 VANGUARD PROJECT  
 VOYAGER PROJECT  
 WEST FORD PROJECT  
 WHIRLWIND PROJECT  
 BT #PROGRAMS  
 RT BUREAUS (ORGANIZATIONS)  
 CONTRACTS  
 ESTIMATING  
 MISSIONS  
 OPERATIONS  
 RESEARCH PROJECTS  
 TASKS  
 TEAMS  
 PROLATE SPHEROIDS  
 1902 2402  
 BT ANALYTIC GEOMETRY  
 EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 SPHEROIDS  
 RT OBLATE SPHEROIDS  
 PROLATENESS  
 0101 0710 1202 1902 3203  
 RT SHAPES  
 PROLONGATION  
 3406 3407  
 BT EXTENSIONS  
 RT #TIME  
 PROMETHAZINE  
 1808  
 BT #AMINES  
 ANTIHISTAMINICS  
 #DRUGS  
 #HETEROCYCLIC COMPOUNDS  
 PROMETHIUM  
 1703 2406  
 NT PROMETHIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS  
 PROMETHIUM ISOTOPES  
 1703 2406  
 UP PROMETHIUM 146  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PROMETHIUM  
 RARE EARTH ELEMENTS  
 PROMETHIUM 146  
 USE PROMETHIUM ISOTOPES  
 PROMINENCES  
 2902 3009  
 NT SOLAR PROMINENCES  
 RT SOLAR ACTIVITY  
 PROMOTION  
 3406 3407  
 RT #DISPLAY DEVICES  
 INCREASING  
 PUBLIC RELATIONS  
 UPGRADING  
 PRONE POSITION  
 0401 0502 0506  
 RT REST  
 SITTING POSITION  
 SUPINE POSITION  
 PROXY SERIES  
 0203 0208  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 REAL VARIABLES  
 SERIES (MATHEMATICS)  
 PROOFS  
 USE PROVING  
 PROPAGATION  
 0710 1704 2311 2601 2603 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP PROPAGATORS  
 RT ACOUSTIC PROPAGATION  
 #ATTENUATION  
 CRACK PROPAGATION  
 DIFFRACTION PROPAGATION  
 #DIFFUSION  
 #ELECTROMAGNETIC RADIATION  
 PLANE PROPAGATION  
 PROPAGATION (EXTENSION)

# PROPAGATION (EXTENSION)

SELF PROPAGATION  
STRESS PROPAGATION  
TRANSEQUATORIAL PROPAGATION  
#TRANSMISSION  
WAVE PROPAGATION  
PROPAGATION (EXTENSION)  
2601 3407  
NT CRACK PROPAGATION  
FLAME PROPAGATION  
RT PROPAGATION  
PROPAGATION MODES  
0710 2306 2402  
BT #MODES  
RT MODE TRANSFORMERS  
MULTIMODE RESONATORS  
PROPAGATION VELOCITY  
SHOCK WAVE INTERACTION  
WAVE INTERACTION  
WAVE PROPAGATION  
WAVEGUIDES  
PROPAGATION VELOCITY  
0710 2402  
BT #RATES (PER TIME)  
VELOCITY  
RT #ELECTROMAGNETIC RADIATION  
GROUP VELOCITY  
PHASE VELOCITY  
PROPAGATION MODES  
WAVE PROPAGATION  
PROPAGATORS  
USE PROPAGATION  
PROPANE  
1808 2702  
BT #ALIPHATIC COMPOUNDS  
ALKANES  
#HYDROCARBONS  
RT CYCLOPROPANE  
HYDROCARBON FUELS  
NITROPROPANE  
PROPELLANT ACTUATED DEVICES  
2802 3103 3110  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ACTUATORS  
#EXPLOSIVE DEVICES  
PROPELLANT ACTUATED INSTRUMENTS  
ROCKET ENGINES  
PROPELLANT ACTUATED INSTRUMENTS  
2802  
RT ACTUATORS  
#CONTROLLERS  
INSTRUMENTS  
#MEASURING INSTRUMENTS  
PROPELLANT ACTUATED DEVICES  
PROPELLANT ADDITIVES  
2702 2804 3301  
NT PROPELLANT BINDERS  
SOLID ROCKET BINDERS  
BT #ADDITIVES  
RT ANTICING ADDITIVES  
ANTIOXIDANTS  
CATALYSTS  
COMPOSITE PROPELLANTS  
CORROSION PREVENTION  
GELLED PROPELLANTS  
INHIBITORS  
PLASTICIZERS  
PROPELLANT DECOMPOSITION  
PROPELLANT SENSITIVITY  
PROPELLANT STORABILITY  
STORABLE PROPELLANTS  
PROPELLANT BINDERS  
1808 2702 2804 2809  
NT SOLID ROCKET BINDERS  
BT #ADDITIVES  
#BINDERS (MATERIALS)  
PROPELLANT ADDITIVES  
RT COMPOSITE PROPELLANTS  
ROCKET PROPELLANTS  
SOLID PROPELLANTS  
PROPELLANT CASTING  
1502 1504 1704  
BT CASTING  
CASTINGS  
#FORMING TECHNIQUES  
PROPELLANT CHEMISTRY  
0602 1808  
RT CHEMISTRY  
THERMOCHEMISTRY  
PROPELLANT COMBUSTION  
2702 2804 2809 3301

NT SOLID PROPELLANT IGNITION  
BT #COMBUSTION  
RT COMBUSTION EFFICIENCY  
COMBUSTION STABILITY  
FUEL COMBUSTION  
HYDROCARBON COMBUSTION  
IGNITION  
METAL COMBUSTION  
PROPELLANT TESTS  
PROPELLANT DECOMPOSITION  
0602 2702  
BT DECOMPOSITION  
RT ENDOTHERMIC FUELS  
FUEL CORROSION  
INHIBITORS  
MONOPROPELLANTS  
PROPELLANT ADDITIVES  
PROPELLANT SENSITIVITY  
PROPELLANT STORABILITY  
PROPELLANT STORAGE  
STORABLE PROPELLANTS  
PROPELLANT EVAPORATION  
0602 2702  
BT EVAPORATION  
#PHASE TRANSFORMATIONS  
VAPORIZING  
RT EVAPORATIVE COOLING  
PROPELLANT STORABILITY  
PROPELLANT STORAGE  
STORABLE PROPELLANTS  
PROPELLANT GRAINS  
2702 2809 3301  
RT BURNING RATE  
GRAINS  
SOLID PROPELLANTS  
SOLID ROCKET PROPELLANTS  
PROPELLANT MASS RATIO  
2702 3106  
BT MASS RATIOS  
#RATIOS  
RT PAYLOAD MASS RATIO  
PROPULSION SYSTEM PERFORMANCE  
PROPULSIVE EFFICIENCY  
SPECIFIC IMPULSE  
STAGE SEPARATION  
PROPELLANT OXIDIZERS  
USE ROCKET OXIDIZERS  
PROPELLANT PROPERTIES  
2702 2804 2809 3301 3304  
NT PROPELLANT SENSITIVITY  
PROPELLANT STORABILITY  
RT #CHEMICAL PROPERTIES  
ELASTIC PROPERTIES  
#MECHANICAL PROPERTIES  
PHYSICAL PROPERTIES  
PROPELLANT TESTS  
PROPERTIES  
#THERMODYNAMIC PROPERTIES  
PROPELLANT SENSITIVITY  
2702 2804 2809  
BT PROPELLANT PROPERTIES  
#SENSITIVITY  
RT IGNITION TEMPERATURE  
IMPACT RESISTANCE  
PROPELLANT ADDITIVES  
PROPELLANT DECOMPOSITION  
PROPELLANT STORABILITY  
PROPELLANT STORAGE  
SHOCK RESISTANCE  
SPONTANEOUS COMBUSTION  
STORABLE PROPELLANTS  
PROPELLANT SPRAYS  
2702 2804 2809 3301  
RT FUEL INJECTION  
FUEL SPRAYS  
LIQUID INJECTION  
LIQUID ROCKET PROPELLANTS  
SPRAYERS  
PROPELLANT STORABILITY  
1103 2702 2804 2809  
BT PROPELLANT PROPERTIES  
RT FUEL CORROSION  
INHIBITORS  
PROPELLANT ADDITIVES  
PROPELLANT DECOMPOSITION  
PROPELLANT EVAPORATION  
PROPELLANT SENSITIVITY  
PROPELLANT STORAGE  
STORABLE PROPELLANTS  
PROPELLANT STORAGE  
1103 2702 2804 2809  
RT EXPULSION BLADDERS

# NASA THESAURUS (ALPHABETICAL LISTING)

FUEL TANK PRESSURIZATION  
FUEL TANKS  
GROUND SUPPORT EQUIPMENT  
#HANDLING EQUIPMENT  
MISSILE STORAGE  
PROPELLANT DECOMPOSITION  
PROPELLANT EVAPORATION  
PROPELLANT SENSITIVITY  
PROPELLANT STORABILITY  
PROPELLANT TANKS  
PROPELLANT TRANSFER  
ROCKET PROPELLANTS  
SPACE STORAGE  
STORABLE PROPELLANTS  
STORAGE  
UNDERGROUND STORAGE  
PROPELLANT TANKS  
2702 2804 2806 2808 2809  
UP ROCKET FUEL TANKS  
ROCKET PROPELLANT TANKS  
BT #TANKS (CONTAINERS)  
RT CYLINDRICAL TANKS  
EXPULSION BLADDERS  
FUEL TANK PRESSURIZATION  
FUEL TANKS  
LIQUID FILLED SHELLS  
LIQUID PROPELLANT ROCKET ENGINES  
LIQUID SLOSING  
PRESSURE VESSELS  
PROPELLANT STORAGE  
SPHERICAL TANKS  
STORAGE TANKS  
TANK GEOMETRY  
ULLAGE  
PROPELLANT TESTS  
2702 3404  
RT COLD FLOW TESTS  
CORROSION TESTS  
ENGINE TESTS  
FUEL TESTS  
INTERIOR BALLISTICS  
MATERIALS TESTS  
MISSILE TESTS  
PROPELLANT COMBUSTION  
PROPELLANT PROPERTIES  
PROPULSIVE EFFICIENCY  
STABILITY TESTS  
TESTS  
PROPELLANT TRANSFER  
1103 2702 2806  
BT #FLUID FLOW  
FUEL FLOW  
MATERIALS HANDLING  
RT FUEL CONTROL  
FUEL SYSTEMS  
LIQUID SLOSING  
PROPELLANT STORAGE  
REFUELING  
#PROPELLANTS  
2701 2702  
NT AEROZINE  
CASE BONDED PROPELLANTS  
COLLOIDAL PROPELLANTS  
COMPOSITE PROPELLANTS  
CRYOGENIC ROCKET PROPELLANTS  
DOMINO PROPELLANTS  
DOUBLE BASE PROPELLANTS  
DOUBLE BASE ROCKET PROPELLANTS  
GASEOUS ROCKET PROPELLANTS  
GELLED PROPELLANTS  
GELLED ROCKET PROPELLANTS  
GUN PROPELLANTS  
HIGH ENERGY PROPELLANTS  
HIGH TEMPERATURE PROPELLANTS  
HYBRID PROPELLANTS  
HYDRAZINE NITROFORM  
HYDROGEN AZIDES  
HYPERGOLIC ROCKET PROPELLANTS  
LIQUID ROCKET PROPELLANTS  
METAL PROPELLANTS  
MONOPROPELLANTS  
NITRASOL EXPLOSIVES  
PENTOLITE  
PLASTIC PROPELLANTS  
RDX  
ROCKET PROPELLANTS  
RP-1 ROCKET PROPELLANTS  
SLURRY PROPELLANTS  
SOLID PROPELLANTS  
SOLID ROCKET PROPELLANTS  
STORABLE PROPELLANTS  
TETRYL

# NASA THESAURUS (ALPHABETICAL LISTING)

**RT AMMUNITION**  
 ASCENT PROPULSION SYSTEMS  
 AUXILIARY PROPULSION  
 BALLISTICS  
 BURNING RATE  
 CARTRIDGES  
 ENERGY SOURCES  
 EXPLOSIVES  
 FUEL TANKS  
 #FUELS  
 FULMINATES  
 GUNS (ORDNANCE)  
 INCENDIARY AMMUNITION  
 POWER SUPPLIES  
 #PROPULSION  
 SPACECRAFT POWER SUPPLIES  
 SPACECRAFT PROPULSION  
 SPECIFIC IMPULSE  
 TORPEDOES  
**PROPELLER BLADES**  
 0104 0202  
**BT #AIRFOILS**  
**RT BLADE TIPS**  
 BLADES  
 FEATHERING  
 PROPELLERS  
 ROTARY WINGS  
**PROPELLER DRIVE**  
 0104 0201 2801  
**NT HELICOPTER PROPELLER DRIVE**  
**BT #MECHANICAL DRIVES**  
**RT MARINE PROPULSION**  
 PROPELLER EFFICIENCY  
 PROPELLERS  
 UNDERWATER PROPULSION  
**PROPELLER EFFICIENCY**  
 0101 0104 0201  
**BT #EFFICIENCY**  
 PROPULSIVE EFFICIENCY  
**RT POWER EFFICIENCY**  
 PROPELLER DRIVE  
 PROPELLERS  
**PROPELLER FANS**  
 0202  
**BT PROPELLERS**  
**RT DUCTED FANS**  
 FANS  
 LIFT FANS  
**PROPELLER SLIPSTREAMS**  
 0101 0102 0104  
**BT AIRCRAFT WAKES**  
 SLIPSTREAMS  
 TURBULENT WAKES  
 #WAKES  
**RT INTERFERENCE DRAG**  
**PROPELLER SYNCHRONIZERS**  
 USE PROPELLERS  
 SYNCHRONIZERS  
**PROPELLERS**  
 0104 0202  
**UP PROPELLER SYNCHRONIZERS**  
**NT PROPELLER FANS**  
 SHROUDED PROPELLERS  
 TILTED PROPELLERS  
 VARIABLE PITCH PROPELLERS  
**RT ACTUATOR DISKS**  
 FEATHERING  
 PROPELLER BLADES  
 PROPELLER DRIVE  
 PROPELLER EFFICIENCY  
 SHIPS  
**PROPERTIES**  
 3408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
**UP ATTRIBUTES**  
 MEASURANDS  
**RT #ACOUSTIC PROPERTIES**  
 #CHEMICAL PROPERTIES  
 #ELECTRICAL PROPERTIES  
 #MACROSCOPIC EQUATIONS  
 #MAGNETIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 OPTICAL PROPERTIES  
 POROSITY  
 PREJUDICES  
 PROGRESS  
 PROPELLANT PROPERTIES  
 PROXIMITY  
 RECOVERABILITY  
 REGULARITY

#SURFACE PROPERTIES  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 TURBIDITY  
**PROPHYLAXIS**  
 0405 0504  
**RT #DISEASES**  
 IMMUNOLOGY  
**PROPIONIC ACID**  
 0403 1808  
**BT #ACIDS**  
 #ALIPHATIC COMPOUNDS  
 CARBOXYLIC ACIDS  
 FATTY ACIDS  
 #ORGANIC COMPOUNDS  
**PROPORTION**  
 1902 1905  
**RT DISTRIBUTING**  
 #RATIOS  
**PROPORTIONAL CONTROL**  
 0104 0201 0202  
**BT #AUTOMATIC CONTROL**  
**RT CONTROL EQUIPMENT**  
 FEEDBACK CONTROL  
 OFF-ON CONTROL  
 SERVOCONTROL  
**PROPORTIONAL COUNTERS**  
 1201 2403 2405  
**BT COUNTERS**  
 IONIZATION CHAMBERS  
 #MEASURING INSTRUMENTS  
 RADIATION COUNTERS  
**RT DOSIMETERS**  
 GEIGER COUNTERS  
 NEUTRON COUNTERS  
**PROPORTIONAL LIMIT**  
 3408  
**UP ELASTIC STRENGTH**  
**BT ELASTIC PROPERTIES**  
 #MECHANICAL PROPERTIES  
 #RANGE (EXTREMES)  
**RT CRITICAL LOADING**  
 MODULUS OF ELASTICITY  
 STRESS-STRAIN DIAGRAMS  
**PROPRIOCEPTION**  
 0401 0405 0408  
**UP KINESTHESIS**  
**NT AUTOKINESIS**  
**BT #PERCEPTION**  
 SENSORY PERCEPTION  
**RT KINESTHESIA**  
**PROPRIOCEPTORS**  
 0401 0405 0408  
**BT #ANATOMY**  
 RECEPTORS (PHYSIOLOGY)  
 SENSE ORGANS  
**RT BARORECEPTORS**  
 #NERVOUS SYSTEM  
**#PROPULSION**  
 2802 2803 2804 2809 3407  
**UP PROPULSION CALCULATIONS**  
**NT ASCENT PROPULSION SYSTEMS**  
 AUXILIARY PROPULSION  
 CHEMICAL PROPULSION  
 ELECTRIC PROPULSION  
 ELECTROMAGNETIC PROPULSION  
 ELECTROSTATIC PROPULSION  
 HYBRID PROPULSION  
 ION PROPULSION  
 JET PROPULSION  
 LOW THRUST PROPULSION  
 MAN OPERATED PROPULSION SYSTEMS  
 MARINE PROPULSION  
 NUCLEAR ELECTRIC PROPULSION  
 NUCLEAR PROPULSION  
 PHOTONIC PROPULSION  
 PLASMA PROPULSION  
 SOLAR PROPULSION  
 SPACECRAFT PROPULSION  
 SUBMARINE PROPULSION  
 UNDERWATER PROPULSION  
**RT AERONAUTICAL ENGINEERING**  
 AIRCRAFT  
 ASTRONAUTICS  
 DESCENT PROPULSION SYSTEMS  
 DRIVES  
 #ENGINES  
 EXHAUST GASES  
 FUEL TANK PRESSURIZATION  
 FUEL TANKS  
 HIGH IMPULSE  
 LOCOMOTION

# PROSTHETIC DEVICES

#MISSILES  
 POST BOOST PROPULSION SYSTEM  
 #PROPELLANTS  
 PROPULSION SYSTEM CONFIGURATIONS  
 PROPULSION SYSTEM PERFORMANCE  
 PROPULSIVE EFFICIENCY  
 PULLING  
 PUSHING  
 ROCKET PROPELLANTS  
 SOLAR SAILS  
 #SPACE FLIGHT  
 SPACE TUGS  
 #THRUST  
**PROPULSION CALCULATIONS**  
 USE MATHEMATICAL MODELS  
 #PROPULSION  
**PROPULSION SYSTEM CONFIGURATIONS**  
 2808 3106  
**BT DESCENT PROPULSION SYSTEMS**  
**RT AERODYNAMIC CONFIGURATIONS**  
 AIRCRAFT CONFIGURATIONS  
 ASCENT PROPULSION SYSTEMS  
 AUXILIARY PROPULSION  
 CONFIGURATIONS  
 LAUNCH VEHICLE CONFIGURATIONS  
 MISSILE CONFIGURATIONS  
 POST BOOST PROPULSION SYSTEM  
 #PROPULSION  
 PROPULSION SYSTEM PERFORMANCE  
 SPACECRAFT CONFIGURATIONS  
**PROPULSION SYSTEM PERFORMANCE**  
 2702 2802 2808 3106  
**RT COLD FLOW TESTS**  
 COMBUSTION EFFICIENCY  
 PERFORMANCE  
 POWER EFFICIENCY  
 PROPELLANT MASS RATIO  
 #PROPULSION  
 PROPULSION SYSTEM CONFIGURATIONS  
 PROPULSIVE EFFICIENCY  
 ROCKET THRUST  
 SPECIFIC IMPULSE  
 THERMODYNAMIC EFFICIENCY  
**PROPULSIVE EFFICIENCY**  
 2702 2802 2808 3106  
**NT PROPELLER EFFICIENCY**  
**BT #EFFICIENCY**  
**RT COMBUSTION EFFICIENCY**  
 ENGINE TESTS  
 MULTISTAGE ROCKET VEHICLES  
 NOZZLE EFFICIENCY  
 POWER EFFICIENCY  
 PROPELLANT MASS RATIO  
 PROPELLANT TESTS  
 #PROPULSION  
 PROPULSION SYSTEM PERFORMANCE  
 SPECIFIC IMPULSE  
 THERMODYNAMIC EFFICIENCY  
 THRUST PROGRAMMING  
**PROPYL COMPOUNDS**  
 0603 1808  
**BT #ALIPHATIC COMPOUNDS**  
**PROPYL NITRATE**  
 1808  
**BT #ALIPHATIC COMPOUNDS**  
 ALKYL COMPOUNDS  
 #ESTERS  
 NITRATE ESTERS  
 #NITROGEN COMPOUNDS  
**PROPYLENE**  
 1808  
**BT #ALIPHATIC COMPOUNDS**  
 ALKENES  
 #HYDROCARBONS  
**PROPYLENE OXIDE**  
 1503 1808  
**BT EPOXY COMPOUNDS**  
**PROSPECTING**  
 USE #EXPLORATION  
**PROSTATE GLAND**  
 0404 0408  
**BT #ANATOMY**  
 ENDOCRINE GLANDS  
 GENITOURINARY SYSTEM  
 GLANDS (ANATOMY)  
 SEX GLANDS  
 #VISCERA  
**RT BLADDER**  
**PROSTHETIC DEVICES**  
 0405 0408  
**NT ARTIFICIAL EARS**  
**BT #MEDICAL EQUIPMENT**

# PROTACTINIUM

RT WALKING MACHINES  
 PROTACTINIUM  
 1703 2406  
 NT PROTACTINIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 PROTACTINIUM COMPOUNDS  
 0603 1804  
 NT PROTACTINIUM FLUORIDES  
 RT METAL COMPOUNDS  
 PROTACTINIUM FLUORIDES  
 0603 1804  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 PROTACTINIUM COMPOUNDS  
 PROTACTINIUM ISOTOPES  
 0603 1703 2406  
 UP PROTACTINIUM 234  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 PROTACTINIUM  
 PROTACTINIUM 234  
 USE PROTACTINIUM ISOTOPES  
 PROTEASE  
 0403 1808  
 BT ENZYMES  
 #PROTECTION  
 0502 0504 1504 3406 3407  
 NT ACCELERATION PROTECTION  
 CIRCUIT PROTECTION  
 CORROSION PREVENTION  
 EYE PROTECTION  
 METEOROID PROTECTION  
 RADIATION PROTECTION  
 RADIATION SHIELDING  
 SOLAR RADIATION SHIELDING  
 THERMAL PROTECTION  
 RT ACCIDENT PREVENTION  
 CIVIL DEFENSE  
 #COATINGS  
 #COUNTERMEASURES  
 #HAZARDS  
 HOUSINGS  
 INSULATION  
 PREVENTION  
 PROTECTORS  
 RESISTANCE  
 SAFETY  
 SAFETY DEVICES  
 #SHIELDING  
 WARNING  
 #WARNING SYSTEMS  
 PROTECTIVE CLOTHING  
 0401 0508  
 NT HELMETS  
 PRESSURE SUITS  
 SPACE SUITS  
 BT #CLOTHING  
 RT ARMOR  
 COVERALLS  
 EMERGENCY LIFE SUSTAINING SYSTEMS  
 FLIGHT CLOTHING  
 GLOVES  
 GOGGLES  
 MASKS  
 SAFETY DEVICES  
 SHOES  
 PROTECTIVE COATINGS  
 1505 1802 3404  
 UP CERAMIC PROTECTIVE COATINGS  
 SPRAYED PROTECTIVE COATINGS  
 NT ANODIC COATINGS  
 CERAMIC COATINGS  
 PRIMERS (COATINGS)  
 BT #COATINGS  
 RT ALKYL RESINS  
 ANODIZING  
 CLADDING  
 CONSTRUCTION MATERIALS  
 CORROSION  
 ELECTROPLATING  
 ENCAPSULATING  
 FINISHES  
 GLASS COATINGS  
 GLAZES  
 GOLD COATINGS  
 INORGANIC COATINGS  
 LACQUERS

METAL COATINGS  
 NICKEL COATINGS  
 PAINTS  
 PLASTIC COATINGS  
 PLATING  
 RUBBER COATINGS  
 SPRAYED COATINGS  
 SURFACE FINISHING  
 VARNISHES  
 WATERPROOFING  
 ZINC COATINGS  
 PROTECTORS  
 0508 1802  
 NT EAR PROTECTORS  
 RT BUMPERS  
 CONTAINERS  
 ENCLOSURES  
 FAIRINGS  
 HOUSINGS  
 #PROTECTION  
 SAFETY DEVICES  
 SCREENS  
 SHEATHS  
 #SHIELDING  
 PROTEIN METABOLISM  
 0403 0406 0505  
 NT LIPID METABOLISM  
 BT #METABOLISM  
 PROTEINOIDS  
 0403 1808  
 BT #PROTEINS  
 #PROTEINS  
 0403 0406 1808  
 NT ADENINES  
 ADENOSINE DIPHOSPHATE (ADP)  
 ADENOSINE TRIPHOSPHATE (ATP)  
 ADENOSINES  
 ALBUMINS  
 AMIDASE  
 ASPARTATES  
 AVIDIN  
 CARBONIC ANHYDRASE  
 CARBOXYHEMOGLOBIN  
 COENZYMES  
 ELASTIN  
 FIBRIN  
 FIBRINOGEN  
 GAMMA GLOBULIN  
 GLOBULINS  
 GLUTATHIONE  
 GUANINES  
 HYPERTENSIN  
 KERATINS  
 LIPOPROTEINS  
 MELANIN  
 NUCLEASE  
 NUCLEOTIDES  
 OXIDASE  
 OXYHEMOGLOBIN  
 PEPTIDES  
 PROTEINOIDS  
 PROTOPROTEINS  
 PYRIDINE NUCLEOTIDES  
 THROMBIN  
 URIDYLIC ACID  
 RT ADRENOCORTICOTROPIN (ACTH)  
 CATALASE  
 COLLAGENS  
 CYSTEINE  
 FOOD  
 MYOGLOBIN  
 NUTRIENTS  
 PROTOPLASM  
 SERUMS  
 PROTHROMBIN  
 0403 1808  
 BT ENZYMES  
 RT THROMBIN  
 PROTOBIOLOGY  
 0403 0404  
 RT VIRUSES  
 PROTON BEAMS  
 2403 2405  
 BT #BEAMS (RADIATION)  
 PARTICLE BEAMS  
 RT NEUTRON BEAMS  
 PROTON IMPACT  
 PROTON IRRADIATION  
 PROTON BELTS  
 1302 2403 2903  
 BT CHARGED PARTICLES  
 #EARTH ATMOSPHERE

# NASA THESAURUS (ALPHABETICAL LISTING)

MAGNETICALLY TRAPPED PARTICLES  
 #PARTICLES  
 RADIATION BELTS  
 TRAPPED PARTICLES  
 RT INNER RADIATION BELT  
 OUTER RADIATION BELT  
 PROTON DENSITY (CONCENTRATION)  
 PROTON DAMAGE  
 2401 2403  
 BT #DAMAGE  
 PROTON DENSITY (CONCENTRATION)  
 2403 2903  
 BT #DENSITY (NUMBER/VOLUME)  
 ION DENSITY (CONCENTRATION)  
 PARTICLE DENSITY (CONCENTRATION)  
 RT ATMOSPHERIC DENSITY  
 ATOM CONCENTRATION  
 PLASMA DENSITY  
 PROTON BELTS  
 SPACE DENSITY  
 PROTON ENERGY  
 2403 2405  
 BT #PARTICLE ENERGY  
 RT ACTIVATION ENERGY  
 ELECTRON ENERGY  
 ENERGY  
 KINETIC ENERGY  
 PROTON PRECESSION  
 PROTON PRECIPITATION  
 SURFACE ENERGY  
 PROTON FLUX DENSITY  
 2403 2405  
 (PROTON EMISSION OR DETECTION RATE PER  
 UNIT AREA)  
 BT FLUX DENSITY  
 PARTICLE FLUX DENSITY  
 RADIANT FLUX DENSITY  
 #RATES (PER TIME)  
 RT IRRADIANCE  
 RADIANCE  
 RADIATION COUNTERS  
 SOLAR FLUX DENSITY  
 PROTON IMPACT  
 2403 2405  
 BT IMPACT  
 RT ELECTRON IMPACT  
 POINT IMPACT  
 PROTON BEAMS  
 PROTON IRRADIATION  
 PROTON IRRADIATION  
 2403 2901 2903 3009  
 BT #IRRADIATION  
 RT DEUTERON IRRADIATION  
 ELECTRON RADIATION  
 PROTON BEAMS  
 PROTON IMPACT  
 PROTON-PROTON REACTIONS  
 PROTON MAGNETIC RESONANCE  
 2307 2403 2405  
 BT MAGNETIC RESONANCE  
 NUCLEAR MAGNETIC RESONANCE  
 #RESONANCE  
 RT PROTON PRECESSION  
 PROTON MASERS  
 1601 2306 2310 2403  
 BT MASERS  
 #STIMULATED EMISSION DEVICES  
 RT MAGNETOMETERS  
 PROTON PRECESSION  
 2403 2502  
 BT #GYRATION  
 PRECESSION  
 RT FREE VIBRATION  
 PROTON ENERGY  
 PROTON MAGNETIC RESONANCE  
 PROTON PRECIPITATION  
 2401 2403  
 RT AURORAS  
 ELECTRON PRECIPITATION  
 #PARTICLES  
 PRECIPITATION  
 PROTON ENERGY  
 RADIATION BELTS  
 TRAPPED PARTICLES  
 UPPER ATMOSPHERE  
 PROTON-PROTON REACTIONS  
 2403 2405 2902  
 BT #NUCLEAR REACTIONS  
 RT ANNIHILATION REACTIONS  
 PROTON IRRADIATION  
 PROTON SCATTERING  
 THERMONUCLEAR REACTIONS

# NASA THESAURUS (ALPHABETICAL LISTING)

**PROTON PROTUBERANCES**  
 2403  
 BT PROTUBERANCES  
**PROTON RESONANCE**  
 2307 2403 2404 2405  
 BT MAGNETIC RESONANCE  
 NUCLEAR MAGNETIC RESONANCE  
 #RESONANCE  
 BT NUCLEAR PARTICLES  
**PROTON 1 SATELLITE**  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 PROTON SATELLITES  
 #SATELLITES  
**PROTON 2 SATELLITE**  
 3107  
 BT ARTIFICIAL SATELLITES  
 PROTON SATELLITES  
 #SATELLITES  
**PROTON 3 SATELLITE**  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 PROTON SATELLITES  
 #SATELLITES  
**PROTON 4 SATELLITE**  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 PROTON SATELLITES  
 #SATELLITES  
**PROTON SATELLITES**  
 3107  
 NT PROTON 1 SATELLITE  
 PROTON 2 SATELLITE  
 PROTON 3 SATELLITE  
 PROTON 4 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT U.S.S.R. SPACE PROGRAM  
**PROTON SCATTERING**  
 2403 2405  
 BT #NUCLEAR REACTIONS  
 #SCATTERING  
 RT ION SCATTERING  
 PROTON-PROTON REACTIONS  
**PROTON TELESCOPES**  
 USE PARTICLE TELESCOPES  
**PROTONS**  
 2401 2403 2404  
 NT RECOIL PROTONS  
 SOLAR PROTONS  
 BT CHARGED PARTICLES  
 ELEMENTARY PARTICLES  
 FERMIONS  
 #PARTICLES  
 RT ALPHA PARTICLES  
 ANTIPROTONS  
 COSMIC RAYS  
 DEUTERONS  
 FLUX DENSITY  
 HYDROGEN IONS  
 NUCLEAR PARTICLES  
 NUCLEI (NUCLEAR PHYSICS)  
 NUCLEON POTENTIAL  
 NUCLEONS  
 RADIATION BELTS  
 RADIATION SHIELDING  
 TRITONS  
**PROTOPLASM**  
 0404 0406  
 BT #PROTEINS  
**PROTOPLASTS**  
 0404 0406  
 BT #CELLS (BIOLOGY)  
**PROTOPROTEINS**  
 0403 1808  
 BT #ACIDS  
 AMINO ACIDS  
 #ORGANIC COMPOUNDS  
 #PROTEINS  
**PROTOSTARS**  
 3001 3003  
 BT T TAURI STARS  
 BT #CELESTIAL BODIES  
 EARLY STARS  
 STARS  
 RT STELLAR EVOLUTION  
**PROTOTYPES**  
 0201 3110

RT BREADBOARD MODELS  
 PATTERNS  
 PILOT PLANTS  
**PROTOZOA**  
 0402 0407  
 NT AMOEBA  
 COLPIDIA  
 FLAGELLATA  
 PARAMECIA  
 PELOMIXIA  
 ROTIFERA  
 TRYPAELOSOMA  
 BT #ANIMALS  
 INVERTEBRATES  
 #MICROORGANISMS  
**PROTRACTORS**  
 1406 1902  
 BT #MEASURING INSTRUMENTS  
 RT ANGLES (GEOMETRY)  
**PROTUBERANCES**  
 0102 0202 3110  
 (COMPONENTS MOUNTED EXTERNAL TO THE  
 STRUCTURE)  
 UF AIRCRAFT PROTUBERANCES  
 BLISTERS (PROTUBERANCES)  
 DOGHOUSES  
 NT PROTON PROTUBERANCES  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT ANTENNAS  
 AIRCRAFT PARTS  
 AIRFRAMES  
 BLISTERS  
 COWLINGS  
 DOMES (STRUCTURAL FORMS)  
 EXTERNAL STORES  
 FAIRINGS  
 FUEL TANKS  
 HOUSINGS  
 NACELLES  
 PAPILLAE  
 PITOT TUBES  
 RADOMES  
 RIDGES  
 #SHELLS (STRUCTURAL FORMS)  
 WING-FUSELAGE STORES  
**PROUSTITE**  
 1306 1703 1804 1806  
 BT #ARSENIC COMPOUNDS  
 ARSENIDES  
 #MINERALS  
**PROVIDER AIRCRAFT**  
 USE C-123 AIRCRAFT  
**PROVING**  
 1103 1108 1902 2311 3406 3407  
 UF CONFIRMATION  
 DEMONSTRATION  
 PROOFS  
 VALIDATION  
 VERIFICATION (PROVING)  
 NT THEOREM PROVING  
 RT ACCEPTABILITY  
 ERROR DETECTION CODES  
 EVALUATION  
 EXAMINATION  
 LUNAR ROVING VEHICLES  
 #MATHEMATICAL LOGIC  
 MEASUREMENT  
 ROVINGS  
 TESTS  
**PROVISIONING**  
 0302  
 RT FOOD  
 LIFE SUPPORT SYSTEMS  
 SPACE RATIONS  
**PROXIMITY**  
 3408  
 RT DISTANCE  
 PROPERTIES  
**PRTR (REACTOR)**  
 USE PLUTONIUM RECYCLE TEST REACTOR  
**PSEUDOMONAS**  
 0404 0407 0412  
 BT BACTERIA  
 #MICROORGANISMS  
 #PLANTS (BOTANY)  
**PSEUDOWISE**  
 0703 0704  
 RT RANDOM NOISE  
**PSEUDORANDOM SEQUENCES**  
 0802 0804 1905  
 RT RANDOM NUMBERS  
 SIGNALS

# #PSYCHOLOGY

**PSEUDOURREA**  
 0403 1808  
 BT AMIDES  
 #AMINES  
 #NITROGEN COMPOUNDS  
 UREAS  
**PSYCHIATRY**  
 0401 0405 0408  
 NT SOCIAL PSYCHIATRY  
 BT #MEDICAL SCIENCE  
 RT MILITARY PSYCHOLOGY  
 #PSYCHOLOGY  
 PSYCHOTHERAPY  
**PSYCHOACOUSTICS**  
 0408 0410 2301  
 BT ACOUSTICS  
 #PSYCHOLOGY  
 PSYCHOPHYSICS  
 RT AUDITORY PERCEPTION  
 AUDITORY SIGNALS  
 BELLS  
 BIOACOUSTICS  
 NOISE INTENSITY  
 #PSYCHOLOGICAL EFFECTS  
 PSYCHOLOGICAL FACTORS  
**#PSYCHOLOGICAL EFFECTS**  
 0408 0410  
 NT ELEVATOR ILLUSION  
 HALLUCINATIONS  
 ILLUSIONS  
 MOON ILLUSION  
 OCULOGRAPHIC ILLUSIONS  
 RT AFTERIMAGES  
 BIOLOGICAL EFFECTS  
 BOREDOM  
 COMFORT  
 CONFIDENCE  
 DISORIENTATION  
 EFFECTS  
 EMOTIONS  
 ENVIRONMENTAL ENGINEERING  
 #ENVIRONMENTS  
 FRUSTRATION  
 HUMAN FACTORS ENGINEERING  
 HUMAN REACTIONS  
 MILITARY PSYCHOLOGY  
 MOODS  
 PSYCHOACOUSTICS  
 REACTION TIME  
 TAYLOR MANIFEST ANXIETY SCALE  
**PSYCHOLOGICAL FACTORS**  
 0408 0410  
 RT ASTRONAUT PERFORMANCE  
 EMOTIONAL FACTORS  
 FLIGHT STRESS (BIOLOGY)  
 HABITS  
 MOODS  
 PERMISSIVITY  
 PSYCHOACOUSTICS  
 PSYCHOSOMATICS  
 STIMULI  
**PSYCHOLOGICAL INDEXES**  
 USE PSYCHOLOGICAL TESTS  
**PSYCHOLOGICAL SETS**  
 0408 0410  
 BT #PSYCHOLOGY  
 RT PSYCHOLOGICAL TESTS  
**PSYCHOLOGICAL TESTS**  
 0408 0410 0502 1905  
 UF PSYCHOLOGICAL INDEXES  
 NT RORSCHACH TESTS  
 RT CERTIFICATION  
 #ENVIRONMENTAL TESTS  
 LINEN  
 MILITARY PSYCHOLOGY  
 PERSONALITY TESTS  
 PILOT SELECTION  
 PSYCHOLOGICAL SETS  
 PSYCHOMETRICS  
 #RATIOS  
 SKINNER BOXES  
 TAYLOR MANIFEST ANXIETY SCALE  
 TESTS  
**#PSYCHOLOGY**  
 0408 0410  
 NT MILITARY PSYCHOLOGY  
 PSYCHOACOUSTICS  
 PSYCHOLOGICAL SETS  
 PSYCHOPHYSICS  
 RT BOREDOM  
 CYBERNETICS  
 DETACHMENT

# PSYCHOMETRICS

DIAGNOSIS  
DISORDERS  
DISORIENTATION  
EMOTIONAL FACTORS  
EMOTIONS  
EXTROVERSION  
FRUSTRATION  
INSPIRATION  
INTELLECT  
INTROVERSION  
MORALE  
PREJUDICES  
PSYCHIATRY  
PSYCHOMETRICS  
PSYCHOTHERAPY  
ROBINSCHACH TESTS  
SUBLIMINAL STIMULI

PSYCHOMETRICS  
0408 0410 0502 1905  
RT DIAGNOSIS  
#EDUCATION  
MILITARY PSYCHOLOGY  
MORNS  
PERSONALITY TESTS  
PSYCHOLOGICAL TESTS  
#PSYCHOLOGY  
PSYCHOMOTOR PERFORMANCE  
PSYCHOPHYSICS  
PSYCHOSOMATICS  
SKINNER BOXES

PSYCHOMOTOR PERFORMANCE  
0401 0405 0408  
BT PSYCHOSOMATICS  
BT #SENSOMOTOR PERFORMANCE  
RT BIOCONTROL SYSTEMS  
#HUMAN PERFORMANCE  
HUMAN REACTIONS  
MENTAL PERFORMANCE  
OPERATOR PERFORMANCE  
PHYSIOLOGICAL TESTS  
PILOT PERFORMANCE  
PSYCHOMETRICS  
REACTION TIME

PSYCHOPHYSICS  
0408 2311  
NT PSYCHOACOUSTICS  
BT #PSYCHOLOGY  
RT PHYSICS  
PSYCHOMETRICS

PSYCHOPHYSIOLOGY  
0401 0405 0408  
BT PHYSIOLOGY

PSYCHOSSES  
0408 0410  
NT PSYCHOTIC DEPRESSION  
SCHIZOPHRENIA  
BT #ABNORMALITIES  
RT DETACHMENT  
DISORDERS  
FEAR  
IRRATIONALITY  
NEUROSES

PSYCHOSOMATICS  
0401 0405 0408 0410  
BT PSYCHOMOTOR PERFORMANCE  
#SENSOMOTOR PERFORMANCE  
RT PSYCHOLOGICAL FACTORS  
PSYCHOMETRICS

PSYCHOTHERAPY  
0405 0408 0410  
BT THERAPY  
BT CONVULSIONS  
HEALTH  
MENTAL HEALTH  
NEUROPSYCHIATRY  
PSYCHIATRY  
#PSYCHOLOGY

PSYCHOTIC DEPRESSION  
0408 0410  
BT #ABNORMALITIES  
PSYCHOSSES  
RT DEPRESSION  
NEUROTIC DEPRESSION

PSYCHROMETERS  
1301 1408 2001 2003  
BT HYGROMETERS  
#MEASURING INSTRUMENTS  
MOISTURE METERS  
RT ATMOSPHERIC MOISTURE  
CHEMICAL ANALYSIS  
HUMIDITY  
HUMIDITY MEASUREMENT

METEOROLOGICAL INSTRUMENTS  
PSYCHROPHILES  
0404 0407  
BT #MICROORGANISMS  
RT MESOPHILES  
THERMOPHILES

PTL-6 ENGINE  
2801 2803 2808  
UP DAIHLER-BENZ PTL-6 GAS TURBINE  
ENGINE  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBINE ENGINES  
RT AIRCRAFT ENGINES  
HELICOPTER ENGINES

PTM (MODULATION)  
USE PULSE TIME MODULATION

PTOLEMAEUS CRATER  
3001 3006 3008  
BT #CRATERS  
LUNAR CRATERS  
RT METEORITE CRATERS  
PUBLIC ADDRESS SYSTEMS  
0502 0702 3302 3401  
RT #WARNING SYSTEMS  
PUBLIC RELATIONS  
3402 3404 3406  
RT IMPROVEMENT  
PROMOTION  
UPGRADING

PUBLICATIONS  
USE #DOCUMENTS  
PUERTO RICO  
1305  
BT #ISLANDS

PULLEYS  
1504 2308  
RT BELTS  
BLOCKS  
IDLERS  
ROLLERS  
#WHEELS  
WINCHES

PULLING  
3407  
RT DRAWING  
FORCE  
#PROPULSION

PULMONARY CIRCULATION  
0405 0408  
BT BLOOD CIRCULATION  
#CIRCULATION  
RT LUNGS  
RESPIRATORY SYSTEM

PULMONARY FUNCTIONS  
0401 0405 0408  
RT FUNCTIONS  
LUNGS

PULMONARY LESIONS  
0405  
BT #DISEASES  
#INJURIES  
LESIONS  
RT LUNG MORPHOLOGY  
LUNGS  
ORGANS  
RESPIRATORY DISEASES

PULSARS  
3001  
BT #CELESTIAL BODIES  
RADIO SOURCES (ASTRONOMY)  
RADIO STARS  
STARS  
RT QUASARS  
RADIATION SOURCES  
RADIO ASTRONOMY  
RADIO BURSTS

PULSATING FLOW  
USE UNSTEADY FLOW

PULSE AMPLITUDE  
1002 2402  
UP PULSE HEIGHT  
BT AMPLITUDES  
WAVEFORMS  
RT AMPLITUDE DISTRIBUTION ANALYSIS  
ELECTRIC PULSES  
PHOTOPeAK  
PULSE AMPLITUDE MODULATION  
PULSED RADIATION  
SAWTOOTH WAVEFORMS

# NASA THESAURUS (ALPHABETICAL LISTING)

SQUARE WAVES  
PULSE AMPLITUDE MODULATION  
0710 1002 2402  
UP PAM (MODULATION)  
BT #MODULATION  
PULSE MODULATION  
RT P.A.C.M. TELEMETRY  
PULSE AMPLITUDE  
PULSE CODE MODULATION  
PULSE CODE MODULATION  
0702 1002 2402  
UP PCM (MODULATION)  
RT DELTA MODULATION  
BT #MODULATION  
PULSE MODULATION  
RT BINARY CODE  
DECOMPUTATORS  
P.A.C.M. TELEMETRY  
PULSE AMPLITUDE MODULATION  
PULSE FREQUENCY MODULATION  
UNIFIED S BAND

PULSE COMMUNICATION  
0702 0708 0902 2402  
UP DIGITAL COMMUNICATION  
RT DIGITAL SPACECRAFT TELEVISION  
BT #TELECOMMUNICATION  
DATA TRANSMISSION  
DELTA MODULATION  
ELECTROMAGNETIC PULSES  
MULTIPLYING  
ORTHOGONAL MULTIPLYING THEORY  
RADIO COMMUNICATION  
RADIO TRANSMISSION  
SATELLITE TRANSMISSION  
#SIGNAL TRANSMISSION  
SPACE COMMUNICATION  
TELEGRAPH SYSTEMS  
TELEMETRY

PULSE COMPRESSION  
0703 0802 1002  
RT CODING  
COMPRESSING  
PULSE DURATION  
#RADAR

PULSE DIFFRACTION  
1002 2402 2502  
BT DIFFRACTION  
RT PLASMA JETS  
PULSED RADIATION  
WAVE PROPAGATION

PULSE DOPPLER RADAR  
0705 0709  
RT MONOPULSE RADAR  
PULSE RADAR  
BT #RADAR  
RT COHERENT RADAR

PULSE DURATION  
1002 1406  
UP LIGHT DURATION  
PULSE WIDTH  
BT WAVEFORMS  
RT ELECTRIC PULSES  
LASER OUTPUTS  
LASER OUTPUTS  
PULSE COMPRESSION  
PULSE RATE  
PULSE TIME MODULATION  
PULSED RADIATION  
SAWTOOTH WAVEFORMS  
SQUARE WAVES  
TIME SIGNALS

PULSE DURATION MODULATION  
1002 2402 2502  
UP PDM (MODULATION)  
PULSE WIDTH MODULATION  
PWN (MODULATION)  
BT #MODULATION  
PULSE MODULATION  
PULSE TIME MODULATION  
RT PULSE POSITION MODULATION  
PULSE WIDTH AMPLITUDE CONVERTERS

PULSE FREQUENCY MODULATION  
0705 0710 1002 2402  
UP PFM (MODULATION)  
BT FREQUENCY MODULATION  
#MODULATION  
PULSE MODULATION  
RT #COMMUNICATION EQUIPMENT  
PULSE CODE MODULATION  
PULSE RATE  
PULSE TIME MODULATION

# NASA THESAURUS (ALPHABETICAL LISTING)

**PULSE FREQUENCY MODULATION TELEMETRY**  
0501 0702 0705 0708  
BT FREQUENCY MODULATION  
#MODULATION  
PULSE MODULATION  
RADIO COMMUNICATION  
RADIO TELEMETRY  
#SIGNAL TRANSMISSION  
#TELECOMMUNICATION  
TELEMETRY  
RT #COMMUNICATION EQUIPMENT  
RADIO TRANSMISSION  
**PULSE GENERATORS**  
0705 0903 0905 2501  
RT ELECTRIC PULSES  
FUNCTION GENERATORS  
GENERATORS  
IMPULSE GENERATORS  
LASERS  
#PLASMA GENERATORS  
PULSE RATE  
PULSED RADIATION  
#SHOCK WAVE GENERATORS  
**PULSE HEATING**  
3303  
BT ANNEALING  
#HARDENING (MATERIALS)  
#HEAT TREATMENT  
#HEATING  
TRANSIENT HEATING  
LASER HEATING  
**PULSE HEIGHT**  
USE PULSE AMPLITUDE  
**PULSE MODULATION**  
0702 0710 1002 2402  
NT DELTA MODULATION  
PULSE AMPLITUDE MODULATION  
PULSE CODE MODULATION  
PULSE DURATION MODULATION  
PULSE FREQUENCY MODULATION  
PULSE FREQUENCY MODULATION  
TELEMETRY  
PULSE POSITION MODULATION  
PULSE TIME MODULATION  
BT #MODULATION  
RT AMPLITUDE MODULATION  
DEMODULATION  
DEMODULATORS  
ELECTRIC PULSES  
ELECTROMAGNETIC PULSES  
FREQUENCY MODULATION  
LIGHT MODULATION  
MODULATORS  
PHASE MODULATION  
PULSED RADIATION  
RADIO TELEMETRY  
TIME DIVISION MULTIPLEXING  
TRIGATONS  
**PULSE POSITION MODULATION**  
0710 1002 2402  
UP PPM (MODULATION)  
BT #MODULATION  
PULSE MODULATION  
PULSE TIME MODULATION  
RT PULSE DURATION MODULATION  
**PULSE RADAR**  
0705 0710  
NT MONOPULSE RADAR  
BT PULSE DOPPLER RADAR  
#RADAR  
RT COHERENT RADAR  
CONTINUOUS WAVE RADAR  
DOPPLER RADAR  
ECHO SUPPRESSORS  
ELECTROMAGNETIC PULSES  
METEOROLOGICAL RADAR  
POLYSTATION DOPPLER TRACKING SYSTEM  
SEARCH RADAR  
SURVEILLANCE RADAR  
SYNCHRONIZERS  
TRACKING RADAR  
**PULSE RATE**  
0701 0702 0905 1002  
UP CHRONOTRONS  
BT #RATES (PER TIME)  
RT ELECTRIC PULSES  
PULSE DURATION  
PULSE FREQUENCY MODULATION  
PULSE GENERATORS  
PULSED RADIATION  
**PULSE RECORDERS**  
USE COUNTERS

**PULSE TIME MODULATION**  
0702 0710 1002 2402  
UP PTH (MODULATION)  
NT PULSE DURATION MODULATION  
PULSE POSITION MODULATION  
BT #MODULATION  
PULSE MODULATION  
RT PULSE DURATION  
PULSE FREQUENCY MODULATION  
**PULSE WIDTH**  
USE PULSE DURATION  
**PULSE WIDTH AMPLITUDE CONVERTERS**  
0701 0702 0710 0905  
RT CONVERTERS  
FREQUENCY CONVERTERS  
PULSE DURATION MODULATION  
**PULSE WIDTH MODULATION**  
USE PULSE DURATION MODULATION  
**PULSED JET ENGINES**  
2804 3104 3301  
BT #ENGINES  
RT ELECTRIC ROCKET ENGINES  
ELECTROTHERMAL ENGINES  
PLASMA ENGINES  
RESISTOJET ENGINES  
**PULSED LASERS**  
1601 2402  
NT Q SWITCHED LASERS  
BT LASERS  
#STIMULATED EMISSION DEVICES  
RT ARGON LASERS  
CARBON DIOXIDE LASERS  
GAS LASERS  
LASER HEATING  
RUBY LASERS  
SEMICONDUCTOR LASERS  
**PULSED RADIATION**  
2402 2406 2903  
NT ELECTROMAGNETIC PULSES  
RT CONTINUOUS RADIATION  
CORPUSCULAR RADIATION  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
LASERS  
PULSE AMPLITUDE  
PULSE DIFFRACTION  
PULSE DURATION  
PULSE GENERATORS  
PULSE MODULATION  
PULSE RATE  
RADIATION  
RAYS  
**PULSEJET ENGINES**  
2804 3104 3301  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
RAMJET ENGINES  
TURBINE ENGINES  
RT V-1 MISSILE  
**#PULSES**  
0710 1201 1202 1203 1308 2402 1001 2304  
NT ELECTRIC PULSES  
ELECTROMAGNETIC PULSES  
GEOMAGNETIC MICROPULSATIONS  
GEOMAGNETIC PULSATIONS  
MICROPULSATIONS  
RT AMPLITUDES  
INTERMITTENCY  
**PULVERIZING**  
USE GRINDING (COMMINUTION)  
**PURICH**  
1805  
BT IGNEOUS ROCKS  
ROCKS  
RT ABRASIVES  
OBSIDIAN  
POWDER (PARTICLES)  
**PUMP IMPELLERS**  
1202 1501  
BT IMPELLERS  
#ROTATING BODIES  
ROTORS  
RT CENTRIFUGAL COMPRESSORS  
CENTRIFUGAL PUMPS  
**PUMP SEALS**  
1501  
BT SEALS (STOPPERS)  
RT GASKETS  
GLANDS

## PUPILLOMETRY

GLANDS (SEALS)  
HERMETIC SEALS  
MOLECULAR PUMPS  
**PUMPING**  
1501 1504 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BLOWING  
COMPRESSED AIR  
COMPRESSING  
CRYOPUMPING  
DRAINAGE  
JET PUMPS  
MAGNETIC PUMPING  
MATERIALS HANDLING  
OPTICAL PUMPING  
#PUMPS  
PURGING  
**#PUMPS**  
1501  
(LIMITED TO PUMPS FOR MATERIALS--  
EXCLUDES HEAT PUMPS)  
OF HYDRAULIC PUMPS  
NT AXIAL FLOW PUMPS  
CENTRIFUGAL PUMPS  
CONDENSATION PUMPS  
DIFFUSION PUMPS  
ELECTROMAGNETIC PUMPS  
FUEL PUMPS  
ION PUMPS  
JET PUMPS  
MOLECULAR PUMPS  
RAMS (PUMPS)  
TURBINE PUMPS  
VACUUM PUMPS  
VISCOUS PUMPS  
RT BELLOWES  
CENTRIFUGAL COMPRESSORS  
EJECTORS  
FEED SYSTEMS  
HEAT PUMPS  
HYDRAULIC EQUIPMENT  
IMPELLERS  
INJECTORS  
LUBRICATION SYSTEMS  
MATERIALS HANDLING  
PACKINGS (SEALS)  
PIPELINES  
PUMPING  
SIPHONS  
STATORS  
#TURBOMACHINERY  
VANELESS DIFFUSERS  
**PUNCHED CARDS**  
0802 0803  
BT CARDS  
RT #COMPUTER STORAGE DEVICES  
DATA RECORDERS  
DATA RECORDING  
DATA STORAGE  
PUNCHED TAPES  
READERS  
**PUNCHED TAPES**  
0802 0803  
RT AUTOMATIC TYPEWRITERS  
#COMPUTER STORAGE DEVICES  
DATA RECORDING  
MAGNETIC TAPES  
PUNCHED CARDS  
READERS  
TAPES  
**PUNCHES**  
3201 3304  
RT DIES  
MACHINE TOOLS  
MOLDS  
PLATES  
PRESSSES  
STAMPING  
**PUNCTURING**  
USE PIERCING  
**PUPA**  
0402 0404  
RT INSECTS  
LARVAE  
**PUPIL SIZE**  
0404 0408  
RT PUPILLOMETRY  
**PUPILLOMETRY**  
0501  
RT BIOHETRICS

# PUPILS

DARK ADAPTATION  
 LIGHT ADAPTATION  
 MEASUREMENT  
 PUPIL SIZE  
 PUPILS  
 0404 0405  
 BT #ANATOMY  
 EYE (ANATOMY)  
 SENSE ORGANS  
 RT VISION  
 PURGING  
 1504 3404 3407  
 RT #CIRCULATION  
 DECONTAMINATION  
 DEGASSING  
 DISTILLATION  
 EVACUATING (VACUUM)  
 FLUSHING  
 OUTGASSING  
 PUMPING  
 PURIFICATION  
 RELIEVING  
 SEPARATION  
 VENTING  
 PURIFICATION  
 0504 0505 0602 1505  
 UP PURIFIERS  
 NT AIR PURIFICATION  
 RT AERATION  
 ANTISEPTICS  
 BENEFICIATION  
 CHEMICAL STERILIZATION  
 CLEANING  
 CRYSTALLIZATION  
 DECONTAMINATION  
 DEMINERALIZING  
 DESALINIZATION  
 DISSIPATION  
 DISTILLATION  
 ELIMINATION  
 ELUTION  
 ENRICHMENT  
 FLUSHING  
 GETTERS  
 PASTEURIZING  
 POTABLE WATER  
 PURGING  
 PURITY  
 REDUCTION  
 REDUCTION (CHEMISTRY)  
 REFINING  
 SCAVENGING  
 SEPARATION  
 SOLVENT EXTRACTION  
 SPACECRAFT STERILIZATION  
 STERILIZATION  
 SUBLIMATION  
 ULTRAPURE METALS  
 UPGRADING  
 WASHING  
 WATER TREATMENT  
 ZONE MELTING  
 PURIFIERS  
 USE PURIFICATION  
 #PURINES  
 0403 1808  
 NT ADEHINES  
 CAFFEINE  
 GUANINES  
 URIC ACID  
 XANTHINES  
 PURITY  
 0504 0505 0602 1505  
 UP IMPURITY  
 RT CLARITY  
 CONCENTRATION (COMPOSITION)  
 CONTAMINANTS  
 CONTAMINATION  
 DECONTAMINATION  
 DILUTION  
 FINENESS  
 #POLLUTION  
 #POTABLE LIQUIDS  
 PURIFICATION  
 QUALITY  
 TRACE CONTAMINANTS  
 ULTRAPURE METALS  
 WATER POLLUTION  
 PURPOSES  
 3406 3409  
 RT GOALS

PURSUIT TRACKING  
 0705 0709  
 BT #TRACKING (POSITION)  
 RT INFRARED TRACKING  
 RADAR TRACKING  
 SATELLITE INTERCEPTORS  
 PUSH-PULL AMPLIFIERS  
 0701 0902 0905 1001 1002  
 UP BALANCED AMPLIFIERS  
 BT #AMPLIFIERS  
 RT PHASE MODULATION  
 POWER AMPLIFIERS  
 PUSHING  
 3407  
 RT FORCE  
 #PROPULSION  
 PWM (MODULATION)  
 USE PULSE DURATION MODULATION  
 PYCHOMETERS  
 0601 1202 2311  
 RT DENSITY (MASS/VOLUME)  
 PYLON MOUNTING  
 0202  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT STRUCTURES  
 COLUMNS (SUPPORTS)  
 RIGID MOUNTING  
 #STRUCTURAL MEMBERS  
 SUPPORTS  
 WIND TUNNEL MODELS  
 PYLONS  
 1102 1106  
 BT SUPPORTS  
 RT COLUMNS (SUPPORTS)  
 #STRUCTURAL MEMBERS  
 STRUTS  
 TOWERS  
 PYRAMIDAL BODIES  
 0102  
 RT BODIES  
 PYRAMIDS  
 #REENTRY VEHICLES  
 PYRAMIDS  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYHEDRONS  
 RT PRISMS  
 PYRAMIDAL BODIES  
 PYRANOMETERS  
 1406 2902 2903  
 BT ACTINOMETERS  
 #MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
 RT PHOTOMETERS  
 RADIOMETERS  
 SKY RADIATION  
 #PYRAZINES  
 1808  
 NT AZINES  
 CYANURATES  
 CYANURIC ACID  
 MECLIZINE  
 METHYLENE BLUE  
 PHENOTHIAZINES  
 PYRENES  
 1808  
 BT #HYDROCARBONS  
 PYREX (TRADEMARK)  
 USE BOROSILICATE GLASS  
 PYRIDINE NUCLEOTIDES  
 0403 1808  
 BT #ACIDS  
 AMINO ACIDS  
 NUCLEOTIDES  
 #ORGANIC COMPOUNDS  
 PHOSPHATES  
 #PHOSPHORUS COMPOUNDS  
 #PROTEINS  
 PYRIDINES  
 0403 1808  
 NT METHAPYRILENE  
 NICOTINIC ACID  
 PIPERIDINE  
 RT KARL FISCHER REAGENT  
 PYRIDOXINE  
 0403 0405 1808  
 UP VITAMIN B 06  
 BT #HETEROCYCLIC COMPOUNDS  
 VITAMINS  
 PYRIMIDINES  
 0403 1808

# NASA THESAURUS (ALPHABETICAL LISTING)

RT MITOCHONDRIA  
 THYMIDINE  
 THYMINE  
 URACIL  
 PYRITES  
 1804 1806  
 BT #CHALCOGENIDES  
 #IRON COMPOUNDS  
 #MINERALS  
 SULFIDES  
 #SULFUR COMPOUNDS  
 PYROCERAM (TRADEMARK)  
 1801 1805 2601  
 BT CERAMICS  
 GLASS  
 PYROELECTRICITY  
 2304 2601 3303  
 BT #ELECTRICAL PROPERTIES  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT PIEZOELECTRICITY  
 POLARIZATION (CHARGE SEPARATION)  
 PYROGEN  
 0603 1507 1805  
 BT FLAMMABLE GASES  
 #GASES  
 RT TORCHES  
 PYROGRAPHALLOY  
 USE #COMPOSITE MATERIALS  
 PYROLYTIC GRAPHITE  
 #REFRACTORY MATERIALS  
 PYROHELIOMETERS  
 1301 1406  
 UP HELIOMETRY  
 BT ASTRONOMICAL TELESCOPES  
 HELIOMETERS  
 #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 #TELESCOPES  
 PYROHYDROLYSIS  
 0601 3303  
 BT #CHEMICAL REACTIONS  
 RT PYROLYSIS  
 PYROLYSIS  
 0602 3303  
 (TRANSFORMATION OF A CHEMICAL COMPOUND  
 INTO ONE OR MORE NEW COMPOUNDS SOLELY  
 THROUGH THE APPLICATION OF HEAT)  
 UP THERMAL DECOMPOSITION  
 BT #CHEMICAL REACTIONS  
 RT ABLATION  
 ENDOTHERMIC REACTIONS  
 EXOTHERMIC REACTIONS  
 PYROHYDROLYSIS  
 THERMAL ABSORPTION  
 THERMAL DEGRADATION  
 THERMAL INSTABILITY  
 THERMOGRAVIMETRY  
 PYROLYTIC GRAPHITE  
 1808 3303  
 UP PYROGRAPHALLOY  
 BT GRAPHITE  
 #PYROLYTIC MATERIALS  
 RT HEAT SHIELDING  
 #PYROLYTIC MATERIALS  
 1804 1808 3303  
 NT PYROLYTIC GRAPHITE  
 RT ABLATIVE MATERIALS  
 CERAMICS  
 MATERIALS  
 #REFRACTORY MATERIALS  
 PYROMETALLURGY  
 1701 1704 3303  
 RT AEROTHERMOCHEMISTRY  
 CHLORINATION  
 CONVERTERS  
 HEAT BALANCE  
 #METAL WORKING  
 METALLURGY  
 REFINING  
 SINTERING  
 SUBLIMATION  
 THERMOCHEMISTRY  
 PYROMETERS  
 1406 1408  
 NT RADIATION PYROMETERS  
 THERMOCOUPLE PYROMETERS  
 BT #MEASURING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 RT TEMPERATURE MEASUREMENT  
 PYROMETRY  
 USE TEMPERATURE MEASUREMENT



NASA THESAURUS (ALPHABETICAL LISTING)

P3V AIRCRAFT

PYROPHORIC MATERIALS

1805 2701 2702

- RT EXPLOSIVES
- FLAMMABILITY
- HYPERGOLIC ROCKET PROPELLANTS
- #IGNITERS
- IGNITION TEMPERATURE
- METAL COMBUSTION
- SOLID PROPELLANT IGNITION
- SPONTANEOUS COMBUSTION

PYROPHYLLITE

1806

- BT #ALUMINUM COMPOUNDS
- ALUMINUM SILICATES
- #MINERALS
- SILICATES
- #SILICON COMPOUNDS

PYROTECHNICS

3302

- UF FIREWORKS
- RT AMMUNITION
- BOMBS (ORDNANCE)
- CHEMICAL FUELS
- DOUBLE BASE PROPELLANTS
- EXPLOSIVES
- FLARES
- GRENADES
- ILLUMINATING
- INCENDIARY AMMUNITION
- INITIATORS (EXPLOSIVES)
- ORDNANCE
- PLASTIC PROPELLANTS
- PROJECTILES
- ROX
- ROCKETS
- SIGNALS

PYROXENES

1804 1806

- NT ENSTATITE
- BT #CHALCOGENIDES
- DIOXIDES
- IGNEOUS ROCKS
- #MINERALS
- OXIDES
- PERIDOTITE
- ROCKS
- SILICATES
- #SILICON COMPOUNDS
- RT ECLOGITE

PYROXYLIN

- USE CELLULOSE NITRATE

PYRRHOTITE

1806 2305 2307

- NT TROILITE
- BT #CHALCOGENIDES
- #IRON COMPOUNDS
- SULFIDES
- #SULFUR COMPOUNDS
- RT #MINERALS

PYROLES

0409 1808

- NT CARBAZOLES
- INDOLES
- TRYPTOPHAN
- BT AZOLES
- #HETEROCYCLIC COMPOUNDS

PYRRONES (TRADEMARK)

0603 1808

- BT POLYMERS

PYRUVATES

0603 1808

- BT #ACIDS
- AMINO ACIDS
- ORGANIC LIQUIDS

P2L H-4 AIRCRAFT

0204 0207

- BT LIGHT AIRCRAFT
- MONOPLANES
- TRAINING AIRCRAFT

P3V AIRCRAFT

- USE P-3 AIRCRAFT

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# Q

Q DEVICES  
2307 2502  
RT MAGNETIC MIRRORS  
PLASMA PINCH

Q FACTORS  
0902 1001 2402  
UF HIGH Q  
QUALITY FACTORS  
RT FIGURE OF MERIT  
RESONANT VIBRATION  
SPECTRAL RESOLUTION  
TUNING

Q SWITCHED LASERS  
1703  
BT LASERS  
PULSED LASERS  
#STIMULATED EMISSION DEVICES  
RT ARGON LASERS  
CARBON DIOXIDE LASERS  
CHEMICAL LASERS  
GAS LASERS  
ROBY LASERS  
SEMICONDUCTOR LASERS  
SOLID STATE LASERS

Q VALUES  
2405  
BT VALUE

QH-50 HELICOPTER  
0206  
UF DASH HELICOPTER  
DSN HELICOPTER  
GYRODYNE DSN-3 HELICOPTER  
GYRODYNE MILITARY AIRCRAFT  
BT GYRODYNE AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT

QSO (RADIO SOURCES)  
USE QUASARS

QUADRANGLES  
USE TETRAGONS

QUADRANTID METEORIODS  
3005  
BT #CELESTIAL BODIES  
METEOROID SHOWERS  
METEORIODS

QUADRANTS  
1902 3001  
BT ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY  
#GEOMETRY

QUADRATIC EQUATIONS  
1902 1903  
BT #ALGEBRA  
#ANALYSIS (MATHEMATICS)  
FIELD THEORY (ALGEBRA)  
NONLINEAR EQUATIONS  
REAL VARIABLES  
RT EQUATIONS  
POLYNOMIALS

QUADRATIC PROGRAMMING  
1902 1903  
BT PROGRAMMING

QUADRATURE APPROXIMATION  
USE QUADRATURES

QUADRATURES  
1904 3006  
UF QUADRATURE APPROXIMATION  
RT CIRCULAR ORBITS  
ORBIT CALCULATION  
ORBITAL MECHANICS  
#ORBITS  
SPACE MECHANICS

QUADRUPOLE LENSES  
USE MAGNETIC LENSES

QUADRUPOLE NETWORKS  
2304 2405  
RT NETWORKS

QUADRUPOLES  
2304 2401 2405  
RT DIPOLES  
NUCLEAR QUADRUPOLE RESONANCE  
POLARITY

QUAIL MISSILE  
3101 3401  
BT AIR TO SURFACE MISSILES  
DECOYS  
#MISSILES  
RT #COUNTERMEASURES

TURBOJET ENGINES

QUALIFICATIONS  
3402 3404 3406  
RT CERTIFICATION  
CONTRACTORS  
#EDUCATION  
EXPERIENCE  
FITNESS  
PERSONALITY TESTS  
#PERSONNEL  
TESTS

QUALITATIVE ANALYSIS  
0601 0602  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT ANALYTICAL CHEMISTRY  
ELECTROPHOTOMETRY  
GAS ANALYSIS  
MASS SPECTROMETERS  
MICROANALYSIS  
NEUTRON ACTIVATION ANALYSIS  
QUANTITATIVE ANALYSIS  
SPECTROSCOPIC ANALYSIS

QUALITY  
1505 3408  
RT ACCURACY  
ADEQUACY  
APPEARANCE  
CONCENTRATION (COMPOSITION)  
CONSISTENCY  
CONTAMINANTS  
CONTROLLABILITY  
DURABILITY  
EVALUATION  
FIGURE OF MERIT  
FINENESS  
FLIGHT CHARACTERISTICS  
GRADE  
IMPURITIES  
MATERIALS TESTS  
PERFORMANCE  
#POLLUTION  
PRECISION  
PRODUCT DEVELOPMENT  
PURITY  
QUALITY CONTROL  
RELIABILITY  
RESISTANCE  
SPECIFICATIONS  
#STABILITY  
TESTS  
UPGRADING  
VALIDITY  
VARIABILITY

QUALITY CONTROL  
1505 3404  
UF RELIABILITY CONTROL  
RT ACCELERATED LIFE TESTS  
ACCEPTABILITY  
AIRCRAFT RELIABILITY  
ASSURANCE  
AVERAGE  
BAYES THEOREM  
CERTIFICATION  
#CHEMICAL TESTS  
CIRCUIT RELIABILITY  
COMPONENT RELIABILITY  
CONFIDENCE  
CONFIDENCE LIMITS  
CONSTRUCTION  
CONTROL  
CORRELATION  
CORRELATION COEFFICIENTS  
COVARIANCE  
DATA SAMPLING  
DEGREES OF FREEDOM  
#ELECTRICAL PROPERTIES  
ELECTRONIC EQUIPMENT TESTS  
ERROR DETECTION CODES  
ERRORS  
ESTIMATES  
ESTIMATING  
EXPERIMENTAL DESIGN  
EXTRAPOLATION  
HYPOTHESES  
INFRARED INSPECTION  
INSPECTION  
LEAST SQUARES METHOD  
LINEAR PREDICTION  
LOW TEMPERATURE TESTS  
MANN-WHITNEY-WILCOXON U TEST  
MATERIALS TESTS

MEAN  
MEDIAN (STATISTICS)  
MODE (STATISTICS)  
#NONDESTRUCTIVE TESTS  
NORMALIZING (STATISTICS)  
OPERATIONS RESEARCH  
#OPTIMIZATION  
ORTHOGONAL FUNCTIONS  
ORTHOGONALITY  
PRECISION  
PROBABILITY THEORY  
PROCESSES  
PRODUCT DEVELOPMENT  
PRODUCTION MANAGEMENT  
PRODUCTS  
QUALITY  
RANDOM ERRORS  
RANDOM SAMPLING  
#RANGE (EXTREMES)  
REGRESSION ANALYSIS  
REGRESSION COEFFICIENTS  
RELIABILITY  
RELIABILITY ENGINEERING  
SAMPLING  
SCHEDULING  
SEQUENTIAL ANALYSIS  
SPACECRAFT RELIABILITY  
SPECIFICATIONS  
STANDARD DEVIATION  
STANDARDIZATION  
STANDARDS  
STATIC TESTS  
#STATISTICAL ANALYSIS  
STATISTICAL CORRELATION  
STATISTICAL DISTRIBUTIONS  
STATISTICAL TESTS  
STRUCTURAL RELIABILITY  
SYSTEMS  
TASK COMPLEXITY  
TASKS  
TESTS  
TOLERANCES (MECHANICS)  
VALUE ENGINEERING  
VARIABILITY  
VARIANCE (STATISTICS)  
WEAR TESTS

QUALITY FACTORS  
USE Q FACTORS

QUANTITATIVE ANALYSIS  
0601  
NT KJELDAHL METHOD  
VAN SLYKE METHOD  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT ANALYTICAL CHEMISTRY  
CHROMATOGRAPHY  
ELECTROPHOTOMETRY  
GAS ANALYSIS  
GRAVIMETRY  
IODIMETRY  
KARL FISCHER REAGENT  
MICROANALYSIS  
NEUTRON ACTIVATION ANALYSIS  
POLAROGRAPHY  
QUALITATIVE ANALYSIS  
RADIOCHEMICAL SEPARATION  
SPECTROSCOPIC ANALYSIS  
VOLUMETRIC ANALYSIS

QUANTITY  
USE AMOUNT

QUANTIZATION  
USE MEASUREMENT

QUANTIZER  
USE COUNTERS

QUANTUM AMPLIFIERS  
0705 0905 2402  
RT INFORMATION THEORY  
LASERS

QUANTUM COUNTERS  
1406  
BT COUNTERS  
#MEASURING INSTRUMENTS  
RADIATION COUNTERS

QUANTUM ELECTRODYNAMICS  
1002 2311 2402  
BT ELECTRODYNAMICS  
QUANTUM MECHANICS  
RT ELECTROMAGNETIC FIELDS  
FEYNMAN DIAGRAMS  
FIELD THEORY (PHYSICS)  
LANDAU-GINSBURG EQUATIONS  
SELF CONSISTENT FIELDS

# QUANTUM GENERATORS

QUANTUM GENERATORS  
USE #STIMULATED EMISSION DEVICES  
QUANTUM MECHANICS

2308 2311 2402

RT PAULI EXCLUSION PRINCIPLE  
QUANTUM ELECTRODYNAMICS  
RT BORN APPROXIMATION  
DYSON THEORY  
ELECTROMAGNETIC INTERACTIONS  
ENERGY DISTRIBUTION  
FUNCTION SPACE  
GROUP VELOCITY  
HYLLERAAS COORDINATES  
MECHANICS (PHYSICS)  
PHASE VELOCITY  
QUANTUM THEORY  
RACA H COEFFICIENT  
RELATIVITY  
STATISTICAL MECHANICS  
STRANGENESS  
U SPIN SPACE

QUANTUM NUMBERS  
0905 2401 2403

RT ANGULAR MOMENTUM  
ELECTRONS  
ENERGY LEVELS  
NUCLEAR SPIN  
NUMBERS  
PARITY  
QUANTUM THEORY

QUANTUM STATISTICS  
1905

UF BOSE-EINSTEIN STATISTICS  
FERMI-DIRAC STATISTICS  
FERMI STATISTICS  
RT BOSONS  
FERMIONS  
MANY BODY PROBLEM  
STATISTICS  
SUPERFLUIDITY  
THOMAS-FERMI MODEL

QUANTUM THEORY

2308 2402

UF WIGHTMAN THEORY  
RT BOHR THEORY  
BT #NUCLEAR PHYSICS  
#THEORETICAL PHYSICS  
RT ANGULAR MOMENTUM  
ATOMIC THEORY  
DE BROGLIE WAVELENGTHS  
DIRAC EQUATION  
ELEMENTARY PARTICLES  
EMISSION  
ENERGY LEVELS  
FIELD THEORY (PHYSICS)  
FORBIDDEN TRANSITIONS  
GROUND STATE  
HAMILTONIAN FUNCTIONS  
KLEIN-DUNHAM POTENTIAL  
MANDELSTAM REPRESENTATION  
MOLECULAR ORBITALS  
#NUCLEAR PHYSICS  
NUCLEAR SPIN  
PARITY  
PERTURBATION THEORY  
PHOTONS  
PHYSICAL OPTICS  
PLANCKS CONSTANT  
QUANTUM MECHANICS  
QUANTUM NUMBERS  
RADIATION  
RADIATION LAWS  
SCHUMANN-RUNGE BANDS  
STATISTICAL DISTRIBUTIONS  
STATISTICAL MECHANICS  
THEORIES  
WAVE EQUATIONS

QUARKS

2403

BT ELEMENTARY PARTICLES  
#PARTICLES

QUARRIES

USE MINES (EXCAVATIONS)

QUARTIC EQUATIONS

1902 1903

BT #ALGEBRA  
#ANALYSIS (MATHEMATICS)  
NONLINEAR EQUATIONS  
REAL VARIABLES

RT EQUATIONS

QUARTILES

1902 1905

RT PROBABILITY DENSITY FUNCTIONS  
#STATISTICAL ANALYSIS  
STATISTICAL DISTRIBUTIONS

QUARTZ

1804 1806

BT #CHALCOGENIDES  
DIOXIDES  
IGNEOUS ROCKS  
OXIDES  
ROCKS  
#SILICON COMPOUNDS  
SILICON DIOXIDE  
SILICON OXIDES  
RT ABRASIVES  
PLINT  
#MINERALS  
SANDS

QUARTZ CRYSTALS

1804 1806

BT #CRYSTALS  
RT FREQUENCY CONTROL  
FREQUENCY STABILITY  
RADIO TRANSMITTERS  
SILICON DIOXIDE

QUARTZ LAMPS

1411 2310 2601

BT #LIGHTING EQUIPMENT  
LUMINAIRES

QUARTZ TRANSDUCERS

1413 2601

BT #TRANSDUCERS  
RT PIEZOELECTRIC CRYSTALS  
PRESSURE SENSORS

QUASARS

0702 0705 2402 2901 2902 2903

UF QSO (RADIO SOURCES)  
QUASI-STELLAR RADIO SOURCES  
BT #CELESTIAL BODIES  
RADIO SOURCES (ASTRONOMY)  
RT GALAXIES  
GRAVITATIONAL COLLAPSE  
PULSARS  
RADIO ASTRONOMY  
RADIO BURSTS  
RADIO EMISSION  
RADIO GALAXIES  
RADIO STARS  
STARS

QUASI-PARTICLES

USE #ELEMENTARY EXCITATIONS

QUASI-STEADY STATES

2311

RT EQUILIBRIUM FLOW  
FLUID DYNAMICS  
NONEQUILIBRIUM FLOW  
STEADY FLOW  
STEADY STATE CREEP  
UNIFORM FLOW

QUASI-STELLAR RADIO SOURCES

USE QUASARS

QUASILINEARITY

USE NONLINEARITY

QUATERNARY ALLOYS

1701 1704

BT #ALLOYS

QUATERNIONS

1902

BT #CLASSICAL MECHANICS

#NUMBER THEORY

QUENCHING

1502 1701 2305 3303

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT EXTINGUISHING

QUENCHING (COOLING)

QUENCHING (COOLING)

3303

UF FLAME QUENCHING

BT #COOLING

RT BATHS

#COMBUSTION

DIPPING

EXTINGUISHING

#HARDENING (MATERIALS)

#HEAT TREATMENT

MICROSTRUCTURE

QUENCHING

SUBMERGING

SUPERCOOLING

SUPERSATURATION

## NASA THESAURUS (ALPHABETICAL LISTING)

QUEUEING THEORY

0802 1902 1905 3404

RT BUNCHING

MATHEMATICAL MODELS

OPERATIONS RESEARCH

#STATISTICAL ANALYSIS

#STOCHASTIC PROCESSES

THEORIES

QUOTIENTS

1902

RT DIVIDING (MATHEMATICS)

# R

RA-28 ENGINE  
2801 2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES

RABBITS  
0409  
BT #ANIMALS  
MAMMALS  
RODENTS  
VERTEBRATES

RACAH COEFFICIENT  
1902 2308  
RT ANGULAR MOMENTUM  
COUPLING  
QUANTUM MECHANICS  
TRANSFORMATIONS (MATHEMATICS)

RACE FACTORS  
3402 3403  
BT ANTHROPOLOGY  
CULTURE (SOCIAL SCIENCES)  
HUMAN BEINGS  
#HUMAN PERFORMANCE  
RACES  
SOCIAL FACTORS  
SOCIOLOGY  
VARIABLE

RACES  
3402 3403  
BT ANTHROPOLOGY  
CULTURE (SOCIAL SCIENCES)  
HUMAN BEINGS  
MINORITIES  
RACE FACTORS

RACE TRACKS (PARTICLE ACCELERATORS)  
2202 2405  
RT ELECTROMAGNETS  
#MAGNETIC FIELDS  
PARTICLE ACCELERATION  
#PARTICLE ACCELERATORS  
PARTICLE TRAJECTORIES

RACKS  
0801 0904 0905 1103 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED CONSULT THE TERMS LISTED  
BELOW)  
RT RACKS (FRAMES)  
RACKS (GEARS)

RACKS (FRAMES)  
1103  
RT RACKS  
STORAGE  
SUPPORTS

RACKS (GEARS)  
1501  
BT GEARS  
RT RACKS  
#TRANSLATIONAL MOTION

RACON BEACONS  
USE RADAR BEACONS

RADANT  
0705 0901  
BT ANTENNAS  
RADAR ANTENNAS  
RT RADAR FILTERS  
RADOMES  
SLOT ANTENNAS  
WAVEGUIDE ANTENNAS

#RADAR  
0705  
NT COHERENT RADAR  
CONTINUOUS WAVE RADAR  
DOPPLER RADAR  
LANDING RADAR  
METEOROLOGICAL RADAR  
MONOPULSE RADAR  
MOVING TARGET INDICATORS  
NORTH AMERICAN SEARCH AND RANGING  
RADAR  
OPTICAL RADAR  
OVER-THE-HORIZON RADAR  
PULSE DOPPLER RADAR  
PULSE RADAR  
RADAR MEASUREMENT  
RANGE AND RANGE RATE TRACKING  
SATELLITE-BORNE RADAR

SEARCH RADAR  
SECONDARY RADAR  
SIDE-LOOKING RADAR  
SURVEILLANCE RADAR  
TRACKING RADAR  
TRADEX RADAR SYSTEM

RT #AIRCRAFT INSTRUMENTS  
CIRCULUNAR COMMUNICATION  
COLLISION AVOIDANCE  
#DISPLAY DEVICES  
DISTANCE MEASURING EQUIPMENT  
#ELECTROMAGNETIC RADIATION  
#FLIGHT INSTRUMENTS  
INSTRUMENT LANDING SYSTEMS  
LUNAR COMMUNICATION  
NAVIGATION INSTRUMENTS  
PULSE COMPRESSION  
RADAR DETECTION  
RADAR RANGE  
SCATTEROMETERS

RADAR ABSORBERS  
0705 1409 2402  
BT ABSORBERS (MATERIALS)  
RT ANTIRADAR COATINGS  
#COUNTERMEASURES  
ELECTROMAGNETIC ABSORPTION

RADAR ABSORBING MATERIALS  
USE ANTIRADAR COATINGS

RADAR ALTIMETERS  
USE RADIO ALTIMETERS

RADAR ANTENNAS  
0705 0901 1402  
NT RADANT  
BT ANTENNAS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
#RADAR EQUIPMENT

RT AIRCRAFT ANTENNAS  
DIPLEXERS  
DIPLOLE ANTENNAS  
HIGH RESOLUTION COVERAGE ANTENNAS  
HORN ANTENNAS  
LENS ANTENNAS  
MICROWAVE ANTENNAS  
PARABOLIC ANTENNAS  
RADAR CROSS SECTIONS  
RADAR ECHOES  
RADAR RECEIVERS  
RADAR REFLECTORS  
RADOMES  
SCHWARZSCHILD ANTENNAS  
SIDELOBE REDUCTION  
SLOT ANTENNAS  
SPINNERS  
STEERABLE ANTENNAS

RADAR APPROACH CONTROL  
0705 1402 3110  
UF RAPCON (CONTROL)  
BT AIR TRAFFIC CONTROL  
APPROACH CONTROL  
#GROUND BASED CONTROL  
#TRAFFIC CONTROL  
AIRCRAFT GUIDANCE  
APPROACH INDICATORS  
INSTRUMENT LANDING SYSTEMS  
#LANDING AIDS  
LANDING INSTRUMENTS  
LANDING RADAR  
RADAR NAVIGATION  
RADARSCOPES  
SURVEILLANCE RADAR

RADAR ASTRONOMY  
0705 0710 1412 3001  
RT RADAR ECHOES  
RADIO ASTRONOMY

RADAR ATTENUATION  
0705 2402  
BT #ATTENUATION  
WAVE ATTENUATION  
RT ATMOSPHERIC ATTENUATION  
ELECTROMAGNETIC ABSORPTION  
MANDELSTAM REPRESENTATION  
RADAR RESOLUTION  
RADIO ATTENUATION  
SIDELOBE REDUCTION  
WAVE PROPAGATION

RADAR BACKSCATTER  
USE BACKSCATTERING  
RADAR SCATTERING

RADAR BEACONS  
0705 0710 2402  
UF RACON BEACONS

BT BEACONS  
#NAVIGATION AIDS  
#RADAR EQUIPMENT

RT AIR TRAFFIC CONTROL  
AIRCRAFT COMMUNICATION  
COMPASSES  
POSITION (LOCATION)  
RADAR BEAMS  
RADAR RECEIVERS  
RADAR REFLECTORS  
TRANSPONDERS

RADAR BEAMS  
0705 0710 2402  
BT #BEAMS (RADIATION)  
RT RADAR BEACONS  
RADAR RANGE  
RADAR SCANNING  
RADAR TRANSMISSION

RADAR CHAFF  
USE CHAFF

RADAR CLUTTER MAPS  
0704 0705  
BT #MAPS  
RT RADAR ECHOES  
RADAR CORNER REFLECTORS  
0705  
UF LUNEBERG LENSES  
BT #RADAR EQUIPMENT  
#REFLECTORS

RADAR CROSS SECTIONS  
0705 2402  
RT ANGELS  
CROSS SECTIONS  
LOW OBSERVABLE REENTRY VEHICLES  
MOVING TARGET INDICATORS  
RADAR ANTENNAS  
RADAR ECHOES  
RADAR TRACKING

RADAR DATA  
0703 0705 1409  
RT DATA  
MICROWAVE PHOTOGRAPHY  
RADAR MAPS  
RADAR PHOTOGRAPHY  
RADAR SIGNATURES  
RADAR TRACKING  
VIDEO DATA

RADAR DETECTION  
0705 0709 1409  
BT #DETECTION  
MISSILE DETECTION  
RT COHERENT RADAR  
CONTINUOUS WAVE RADAR  
DIGITAL RADAR SYSTEMS  
DOPPLER RADAR  
ELECTRONIC COUNTERMEASURES  
OPTICAL RADAR  
OVER-THE-HORIZON RADAR  
#RADAR  
RADARSCOPES  
SATELLITE-BORNE RADAR  
SEARCH RADAR  
SIGNAL DETECTION

RADAR DIRECTION FINDERS  
USE RADIO DIRECTION FINDERS

RADAR DISPLAYS  
USE RADARSCOPES

RADAR ECHOES  
0705 0709 2402  
UF RADAR REFLECTIONS  
NT ANGELS  
CLUTTER  
LUNAR RADAR ECHOES  
SOLAR RADAR ECHOES  
VENUS RADAR ECHOES

BT #ECHOES  
RT AURORAL ECHOES  
CHAFF  
GHOSTS  
GLINT  
RADAR ANTENNAS  
RADAR ASTRONOMY  
RADAR CLUTTER MAPS  
RADAR CROSS SECTIONS  
RADAR RECEIVERS  
RADAR RECEPTION  
#TARGETS

#RADAR EQUIPMENT  
0701 0705 0905  
NT PLAN POSITION INDICATORS  
RADAR ANTENNAS  
RADAR BEACONS

# RADAR FILTERS

RADAR CORNER REFLECTORS  
 RADAR FILTERS  
 RADAR RECEIVERS  
 RADAR REFLECTORS  
 RADAR TRANSMITTERS  
 RADARSCOPES  
 BT AIRBORNE EQUIPMENT  
 AIRPORT SURFACE DETECTION EQUIPMENT  
 DIGITAL RADAR SYSTEMS  
 DIPLEXERS  
 DISTANCE MEASURING EQUIPMENT  
 DOPPLER RADAR  
 EQUIPMENT  
 JAMMERS  
 #ONBOARD EQUIPMENT  
 PARABOLIC ANTENNAS  
 #RADIO EQUIPMENT  
 RADOMES  
 RANGE FINDERS  
 SERVOMECHANISMS  
 TRANSPONDERS  
 RADAR FILTERS  
 0701 0704 0705 1409 1413  
 BT #ELECTRIC FILTERS  
 ELECTROMAGNETIC WAVE FILTERS  
 #RADAR EQUIPMENT  
 RT MICROWAVE FILTERS  
 RADANT  
 RADIO FILTERS  
 WAVEGUIDE FILTERS  
 RADAR IMAGERY  
 0702 0705 0903  
 BT #IMAGERY  
 IMAGING TECHNIQUES  
 RADAR MAPS  
 SIDE-LOOKING RADAR  
 RADAR MAPS  
 0705 0708 1409 2003  
 RT RADAR IMAGERY  
 BT #MAPS  
 RT MAP MATCHING GUIDANCE  
 METEOROLOGICAL CHARTS  
 RADAR DATA  
 RADAR NAVIGATION  
 RADAR MEASUREMENT  
 0705 1406  
 BT #RADAR  
 RT DISTANCE MEASURING EQUIPMENT  
 MEASUREMENT  
 RADAR NAVIGATION  
 RADIO ALTIMETERS  
 RANGEFINDING  
 RADAR NAVIGATION  
 0705 1402 2104  
 BT #NAVIGATION  
 RT AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 AIRCRAFT GUIDANCE  
 ALL-WEATHER AIR NAVIGATION  
 AUTOMATIC FLIGHT CONTROL  
 CELESTIAL NAVIGATION  
 COLLISION AVOIDANCE  
 DEAD RECKONING  
 DISTANCE  
 DISTANCE MEASURING EQUIPMENT  
 DOPPLER-FIZEAU EFFECT  
 DOPPLER NAVIGATION  
 DOPPLER RADAR  
 #GROUND BASED CONTROL  
 INERTIAL NAVIGATION  
 INTERPLANETARY NAVIGATION  
 MAP MATCHING GUIDANCE  
 RADAR APPROACH CONTROL  
 RADAR MAPS  
 RADAR MEASUREMENT  
 RADAR SCANNING  
 RADARSCOPES  
 RADIO NAVIGATION  
 SATELLITE NAVIGATION SYSTEMS  
 SPACE NAVIGATION  
 SURFACE NAVIGATION  
 TACAN  
 RADAR OBSERVATION  
 USE RADAR TRACKING  
 RADAR PHOTOGRAPHY  
 0705 0708 1407 1409 2003  
 BT #IMAGERY  
 MULTISPECTRAL PHOTOGRAPHY  
 #PHOTOGRAPHY  
 RT BLACK AND WHITE PHOTOGRAPHY  
 MICROWAVE PHOTOGRAPHY  
 RADAR DATA

RADARSCOPES  
 SPECTRAL RECONNAISSANCE  
 ULTRAVIOLET PHOTOGRAPHY  
 RADAR RANGE  
 0705 0709  
 BT DISTANCE  
 RT CONTINUOUS WAVE RADAR  
 OPTICAL SLANT RANGE  
 OVER-THE-HORIZON RADAR  
 #RADAR  
 RADAR BEAMS  
 RADIO RANGE  
 RADAR RECEIVERS  
 0701 0705 1409  
 BT #RADAR EQUIPMENT  
 RT DIGITAL RADAR SYSTEMS  
 ELECTROMAGNETIC NOISE  
 MICROWAVE SENSORS  
 RADAR ANTENNAS  
 RADAR BEACONS  
 RADAR ECHOES  
 RADAR REFLECTORS  
 RADIO RECEIVERS  
 RECEIVERS  
 REPEATERS  
 RADAR RECEPTION  
 0705 1409  
 RT RADAR ECHOES  
 RADIO RECEPTION  
 RECEIVING  
 SIDELOBE REDUCTION  
 RADAR REFLECTIONS  
 USE RADAR ECHOES  
 RADAR REFLECTORS  
 0701 0705 0710  
 BT #RADAR EQUIPMENT  
 #REFLECTORS  
 RT PARABOLIC ANTENNAS  
 PARABOLIC REFLECTORS  
 RADAR ANTENNAS  
 RADAR BEACONS  
 RADAR RECEIVERS  
 RADIO ECHOES  
 SIDELOBE REDUCTION  
 RADAR RESOLUTION  
 0705 0710  
 BT #RESOLUTION  
 RT ANGULAR RESOLUTION  
 #DISPLAY DEVICES  
 HIGH RESOLUTION COVERAGE ANTENNAS  
 RADAR ATTENUATION  
 RADAR SCANNING  
 RADAR TRANSMISSION  
 SIDELOBE REDUCTION  
 SPECTRAL RESOLUTION  
 RADAR SCANNING  
 0702 0705 0710  
 RT RADAR TARGET SCATTER SITE PROGRAM  
 BT #SCANNING  
 RT CONICAL SCANNING  
 DIGITAL RADAR SYSTEMS  
 FREQUENCY SCANNING  
 METEOROLOGICAL RADAR  
 MULTIPLE BEAM INTERVAL SCANNERS  
 PANORAMIC SCANNING  
 RADAR BEAMS  
 RADAR NAVIGATION  
 RADAR RESOLUTION  
 RADAR TRACKING  
 RADIO TRACKING  
 SIDE-LOOKING RADAR  
 SURVEILLANCE  
 RADAR SCATTERING  
 0705 0710 3407  
 UP RADAR BACKSCATTER  
 BT #SCATTERING  
 RT INCOHERENT SCATTERING  
 SCATTEROMETERS  
 RADAR SIGNATURES  
 0705 0710  
 RT MISSILE SIGNATURES  
 RT #SIGNATURES  
 RT #DETECTION  
 #IMAGERY  
 RADAR DATA  
 SIGNATURE ANALYSIS  
 TARGET RECOGNITION  
 RADAR TARGET SCATTER SITE PROGRAM  
 0705 3401  
 UP RATSCAT PROGRAM  
 BT #PROGRAMS  
 RADAR SCANNING

# NASA THESAURUS (ALPHABETICAL LISTING)

RADAR TARGETS  
 #SCANNING  
 RT #TARGETS  
 RADAR TARGETS  
 0705 0709  
 RT RADAR TARGET SCATTER SITE PROGRAM  
 BT #TARGETS  
 RT DIGITAL RADAR SYSTEMS  
 EARLY WARNING SYSTEMS  
 RADAR TRACKING  
 RADIAL VELOCITY  
 RADAR TRACKING  
 0705 0709 1109  
 UP RADAR OBSERVATION  
 BT #TRACKING (POSITION)  
 RT BALLISTIC MISSILE EARLY WARNING  
 SYSTEM  
 COMPENSATORY TRACKING  
 DIGITAL RADAR SYSTEMS  
 DOPPLER RADAR  
 EARLY WARNING SYSTEMS  
 METEOROLOGICAL RADAR  
 MONOPULSE RADAR  
 MOVING TARGET INDICATORS  
 PURSUIT TRACKING  
 RADAR CROSS SECTIONS  
 RADAR DATA  
 RADAR SCANNING  
 RADAR TARGETS  
 RADIO TRACKING  
 RANGE AND RANGE RATE TRACKING  
 RANGEFINDING  
 RAWINSONDES  
 SEARCH RADAR  
 SLEWING  
 SPACECRAFT TRACKING  
 SURVEILLANCE RADAR  
 TRACKING RADAR  
 TRANSPONDER CONTROL GROUP  
 RADAR TRANSMISSION  
 0705 0710 0901  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 RT ATMOSPHERIC ATTENUATION  
 DIGITAL RADAR SYSTEMS  
 ELECTROMAGNETIC PULSES  
 RADAR BEAMS  
 RADAR RESOLUTION  
 RADIO TRANSMISSION  
 RADOME MATERIALS  
 WAVE ATTENUATION  
 WAVE PROPAGATION  
 RADAR TRANSMITTERS  
 0705 0701 0705 0905  
 BT #RADAR EQUIPMENT  
 #TRANSMITTERS  
 RADARSCOPES  
 0705  
 UP RADAR DISPLAYS  
 RT PLAN POSITION INDICATORS  
 BT #DISPLAY DEVICES  
 #RADAR EQUIPMENT  
 RT AIRCRAFT GUIDANCE  
 INDICATING INSTRUMENTS  
 MICROWAVE IMAGERY  
 MICROWAVE PHOTOGRAPHY  
 RADAR APPROACH CONTROL  
 RADAR DETECTION  
 RADAR NAVIGATION  
 RADAR PHOTOGRAPHY  
 SURVEILLANCE RADAR  
 RADIAL DISTRIBUTION  
 3408  
 BT #DISTRIBUTION (PROPERTY)  
 RT RAYLEIGH DISTRIBUTION  
 STAR DISTRIBUTION  
 WIND PROFILES  
 RADIAL FLOW  
 1202 1203 2502 3304  
 BT #FLUID FLOW  
 RT AXIAL FLOW  
 CENTRIFUGAL COMPRESSORS  
 #DIFFUSION  
 FLOW GEOMETRY  
 GAS FLOW  
 HEAT TRANSMISSION  
 TWO DIMENSIONAL FLOW  
 RADIAL VELOCITY  
 0710 2311 3001 3009  
 BT #RATES (PER TIME)  
 VELOCITY

# NASA THESAURUS (ALPHABETICAL LISTING)

**BT** ASTRONOMICAL SPECTROSCOPY  
 DOPPLER EFFECT  
 RADAR TARGETS  
 RED SHIFT  
 VELOCITY MEASUREMENT  
 VELOCITY MEASUREMENT  
**RADIANCE**  
 1406 2402 2902 2903  
 (DIRECTIONAL EMISSION RATE PER UNIT  
 AREA OF RADIATION)  
**BT** FLUX DENSITY  
 RADIANT FLUX DENSITY  
 #RATES (PER TIME)  
**BT** BLACK BODY RADIATION  
 BRIGHTNESS  
 ELECTROMAGNETIC PROPERTIES  
 EMISSIVITY  
 EMITTANCE  
 GLARE  
 INCANDESCENCE  
 INTENSITY  
 IRRADIANCE  
 LUMENS  
 LUMINOSITY  
 NEUTRON FLUX DENSITY  
 SOLAR FLUX DENSITY  
 TRANSMISSOMETERS  
 VISIBILITY  
**RADIANCY**  
 2902 2903  
 (EMISSION RATE PER UNIT AREA OF  
 RADIATION)  
**BT** FLUX DENSITY  
 RADIANT FLUX DENSITY  
 #RATES (PER TIME)  
**BT** ELECTRON FLUX DENSITY  
 ILLUMINANCE  
 LUMINOUS INTENSITY  
 NEUTRON FLUX DENSITY  
 PARTICLE FLUX DENSITY  
 PROTON FLUX DENSITY  
 SOLAR FLUX DENSITY  
**RADIANT COOLING**  
 1803 3303 3304  
**BT** #COOLING  
**BT** RADIANT HEATING  
 RADIATIVE HEAT TRANSFER  
 SURFACE COOLING  
**RADIANT ENERGY**  
 USE RADIATION  
**RADIANT FLUX DENSITY**  
 2901 2902 2903  
 (DYNES/CM-SEC AS DISTINGUISHED FROM  
 FROM RADIATION PRESSURE--DYNES/CM2)  
**UP** RADIANT INTENSITY  
 RADIATION INTENSITY  
 RADIO ENERGY  
**BT** ELECTRON FLUX DENSITY  
 ILLUMINANCE  
 IRRADIANCE  
 LUMENS  
 LUMINANCE  
 LUMINOUS INTENSITY  
 NEUTRON FLUX DENSITY  
 PARTICLE FLUX DENSITY  
 PROTON FLUX DENSITY  
 RADIANCE  
 RADIANCY  
 SOLAR CONSTANT  
 SOLAR FLUX DENSITY  
**BT** FLUX DENSITY  
 #RATES (PER TIME)  
**BT** BRIGHTNESS  
 DOSIMETERS  
 EMISSIVITY  
 EMITTANCE  
 FAR FIELDS  
 FLUX (RATE)  
 LASER OUTPUTS  
 LUMINOSITY  
 LASER OUTPUTS  
 POST-BLAST NUCLEAR RADIATION  
 RADIATION COUNTERS  
 RADIATION PRESSURE  
 RADIO SPECTRA  
 SCATTERING FUNCTIONS  
 SOLAR CONSTANT  
 SOLAR REFLECTORS  
 SOUND INTENSITY  
 VIEW EFFECTS  
**RADIANT HEATING**  
 2902 3303 3304

**UP** RADIATION HEATING  
**BT** #HEATING  
**BT** ENERGY  
 GAS HEATING  
 RADIANT COOLING  
 RADIATIVE HEAT TRANSFER  
 RADIATIVE TRANSFER  
 SOLAR HEATING  
**RADIANT INTENSITY**  
 USE RADIANT FLUX DENSITY  
**RADIATION**  
 0301 0411 0710 0901 2202 2311 2401  
 2402 2403 2903  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
**UP** RADIANT ENERGY  
 RADIATION EMISSION  
**BT** #ATMOSPHERIC RADIATION  
 BACKGROUND NOISE  
 BASE HEATING  
 #BEAMS (RADIATION)  
 #COHERENT RADIATION  
 CONTINUOUS RADIATION  
 CORPUSCULAR RADIATION  
 COSMIC RAYS  
 DIFFUSE RADIATION  
 #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 ELECTRON RADIATION  
 EMISSION  
 #EXTRATERRESTRIAL RADIATION  
 FALLOUT  
 FLUX (RATE)  
 FLUX DENSITY  
 GEOPHYSICS  
 HARMONIC RADIATION  
 #HEATING  
 INCIDENT RADIATION  
 #IONIZING RADIATION  
 #IRRADIATION  
 KIRCHHOFF LAW OF RADIATION  
 LONGITUDINAL WAVES  
 LUNAR RADIATION  
 NUCLEAR RADIATION  
 NUCLEON POTENTIAL  
 PHOTONS  
 PLANE WAVES  
 PLASMA RADIATION  
 #POLARIZED RADIATION  
 PULSED RADIATION  
 QUANTUM THEORY  
 RADIATIVE TRANSFER  
 RADIOACTIVITY  
 RADIOLOGY  
 SELF ABSORPTION  
 SOLAR RADIATION  
 SPECTRAL EMISSION  
 STANDING WAVES  
 TEMPERATURE EFFECTS  
 TERRESTRIAL RADIATION  
 THERMAL RADIATION  
 TRAP PROGRAM  
 VOLTERRA EQUATIONS  
**#RADIATION ABSORPTION**  
 0401 1301 2402  
**BT** ATMOSPHERIC ATTENUATION  
 AURORAL ABSORPTION  
 ELECTROMAGNETIC ABSORPTION  
 MOLECULAR ABSORPTION  
 PHOTOABSORPTION  
 POLAR CAP ABSORPTION  
 SELF ABSORPTION  
 ULTRAVIOLET ABSORPTION  
 X RAY ABSORPTION  
**BT** ABSORPTION  
 ABSORPTION CROSS SECTIONS  
 GOLAY DETECTOR CELLS  
 GRAY GAS  
 INTERSTELLAR EXTINCTION  
 MATERIAL ABSORPTION  
 NEUTRON ABSORBERS  
 #NUCLEAR REACTIONS  
 STOPPING POWER  
**RADIATION BELTS**  
 1302 2402 2903  
**UP** GEOMAGNETICALLY TRAPPED PARTICLES  
 TRAPPED RADIATION  
 VAN ALLEN RADIATION BELTS  
**BT** ARTIFICIAL RADIATION BELTS  
 INNER RADIATION BELT  
 OUTER RADIATION BELT

## RADIATION DISTRIBUTION

**BT** PROTON BELTS  
 CHARGED PARTICLES  
 #EARTH ATMOSPHERE  
 MAGNETICALLY TRAPPED PARTICLES  
 #PARTICLES  
 TRAPPED PARTICLES  
**BT** AEROSPACE ENVIRONMENTS  
 BELTS  
 COSMIC RAYS  
 ELECTRON DENSITY (CONCENTRATION)  
 ELECTRON PRECIPITATION  
 ELECTRON TRAJECTORIES  
 ELECTRONS  
 ELEMENTARY PARTICLES  
 ENTRAPMENT  
 EXOSPHERE  
 #EXTRATERRESTRIAL RADIATION  
 #IONIZING RADIATION  
 IONOSPHERIC DRIFT  
 #MAGNETIC FIELDS  
 MAGNETOSPHERE  
 MIRROR POINT  
 #PLASMAS (PHYSICS)  
 PROTON PRECIPITATION  
 PROTONS  
 SOLAR RADIATION  
 TRAPPING  
 UPPER ATMOSPHERE  
**RADIATION CONTROL**  
 USE RADIATION PROTECTION  
**RADIATION COUNTERS**  
 2402 2902 2903  
**UP** IONIZATION COUNTERS  
 PARTICLE COUNTERS  
 PARTICLE DETECTORS  
**BT** CERENKOV COUNTERS  
 ELECTRON COUNTERS  
 GEIGER COUNTERS  
 NEUTRON COUNTERS  
 NEUTRON SPECTROMETERS  
 PARTICLE TELESCOPES  
 PROPORTIONAL COUNTERS  
 QUANTUM COUNTERS  
 SCINTILLATION COUNTERS  
 SPARK CHAMBERS  
**BT** COUNTERS  
**BT** #MEASURING INSTRUMENTS  
 BUBBLE CHAMBERS  
 CLOUD CHAMBERS  
 COINCIDENCE CIRCUITS  
 DOSIMETERS  
 ELECTROSTATIC PROBES  
 FLUENCE  
 GAS DISCHARGE TUBES  
 HODOSCOPES  
 ION TRAPS (INSTRUMENTATION)  
 IONIZATION CHAMBERS  
 #IONIZING RADIATION  
 NUCLEAR EMULSIONS  
 PARTICLE FLUX DENSITY  
 PROTON FLUX DENSITY  
 RADIANT FLUX DENSITY  
 RADIATION DETECTORS  
 RADIATION HAZARDS  
 SPECTROMETERS  
**RADIATION DAMAGE**  
 0408 0411 0504 2402 2903  
**BT** #DAMAGE  
 RADIATION EFFECTS  
**BT** #IONIZING RADIATION  
 RADIATION INJURIES  
**RADIATION DETECTORS**  
 0411 0508 1406 1410  
**BT** DOSIMETERS  
 GOLAY DETECTOR CELLS  
 SILICON RADIATION DETECTORS  
 THRESHOLD DETECTORS (DOSIMETERS)  
**BT** #MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
**BT** DETECTORS  
 GEIGER COUNTERS  
 HEALTH PHYSICS  
 RADIATION COUNTERS  
**RADIATION DISTRIBUTION**  
 1301 2402 2903 3304  
**UP** RADIATION FIELDS  
**BT** ANTENNA RADIATION PATTERNS  
 DIFFRACTION PATTERNS  
 KOSSEL PATTERN  
 RAINBOWS  
 SIDELOBES  
**BT** #DISTRIBUTION (PROPERTY)

# RADIATION DOSAGE

RT CORPUSCULAR RADIATION  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
FIELD THEORY (PHYSICS)  
FLUX DENSITY  
NULL ZONES  
PATTERNS  
VERTICAL DISTRIBUTION  
WAVE DISPERSION  
RADIATION DOSAGE  
0401 0405 0408 0411  
UF OVEREXPOSURE  
BT RADIATION EXPOSURE  
BT DOSAGE  
RT BIOLOGICAL EFFECTS  
DOSIMETERS  
EXPOSURE  
HEALTH PHYSICS  
#IRRADIATION  
RADIATION EFFECTS  
RADIATION PROTECTION  
RADIATION TOLERANCE  
RADIATION EFFECTS  
0411 0504 1505  
NT RADIATION DAMAGE  
RADIATION INJURIES  
RADIOLYSIS  
RT BIOLOGICAL EFFECTS  
BLACKOUT (PROPAGATION)  
#DAMAGE  
DOSIMETERS  
EFFECTS  
ELECTRON RADIATION  
FALLOUT  
GAMMA RAYS  
HEALTH PHYSICS  
HEMATOPOIESIS  
#IRRADIATION  
#MECHANICAL PROPERTIES  
NEUTRONS  
NUCLEAR EXPLOSION EFFECT  
NUCLEAR RADIATION  
#PHYSIOLOGICAL EFFECTS  
POST-BLAST NUCLEAR RADIATION  
POYNTING-ROBERTSON EFFECT  
PRESERVING  
RADIATION DOSAGE  
RADIATION HAZARDS  
RADIATION MEDICINE  
RADIATION PROTECTION  
RADIATION THERAPY  
RADIATION TOLERANCE  
RADIOACTIVE CONTAMINANTS  
RADIATION EMISSION  
USE RADIATION  
RADIATION EXPOSURE  
USE RADIATION DOSAGE  
RADIATION FIELDS  
USE RADIATION DISTRIBUTION  
RADIATION HAZARDS  
0401 0408 0411  
BT #HAZARDS  
RT DERMATITIS  
DOSIMETERS  
#ELECTROMAGNETIC RADIATION  
FALLOUT  
FLUX DENSITY  
HEALTH PHYSICS  
#IONIZING RADIATION  
MUTATIONS  
NUCLEAR EXPLOSION EFFECT  
NUCLEAR EXPLOSIONS  
NUCLEAR RADIATION  
OPERATIONAL HAZARDS  
RADIATION COUNTERS  
RADIATION EFFECTS  
RADIATION MEASURING INSTRUMENTS  
RADIATION SHIELDING  
RADIOACTIVE CONTAMINANTS  
RADIOACTIVE MATERIALS  
RADIOACTIVE WASTES  
RADIOACTIVITY  
REACTOR SAFETY  
RADIATION HEATING  
USE RADIANT HEATING  
RADIATION INDICATORS  
USE DOSIMETERS  
INDICATING INSTRUMENTS  
RADIATION INJURIES  
0408 0411  
BT #INJURIES  
RADIATION EFFECTS

RT BURNS (INJURIES)  
HEALTH PHYSICS  
RADIATION DAMAGE  
RADIATION SICKNESS  
RADIATION TOLERANCE  
RADIATION INTENSITY  
USE RADIANT FLUX DENSITY  
RADIATION LAWS  
0710 2402 2902 2903  
NT KIRCHHOFF LAW OF RADIATION  
STEFAN-BOLTZMANN LAW  
BT #LAWS  
RT #ELECTROMAGNETIC RADIATION  
QUANTUM THEORY  
RADIATION MEASUREMENT  
1406 2402  
RT DOSAGE  
DOSIMETERS  
#IRRADIATION  
MEASUREMENT  
RADIATION MEASURING INSTRUMENTS  
1406 1408 1410 1411  
UF PHOTOELECTROMAGNETIC DETECTORS  
PHOTOSENSORS  
RADIATION METERS  
ACTINOMETERS  
BOLOMETERS  
DICKE RADIOMETERS  
DOSIMETERS  
FABRY-PEROT SPECTROMETERS  
GOLAY DETECTOR CELLS  
HODOSCOPES  
INFRARED DETECTORS  
INFRARED INSTRUMENTS  
INFRARED SCANNERS  
MICROWAVE RADIOMETERS  
PYRANOMETERS  
RADIATION DETECTORS  
RADIOMETERS  
RIOMETERS  
SILICON RADIATION DETECTORS  
SOLAR SPECTROMETERS  
SPECTORADIOMETERS  
THRESHOLD DETECTORS (DOSIMETERS)  
BT #MEASURING INSTRUMENTS  
RT DETECTORS  
HEALTH PHYSICS  
IONIZATION CHAMBERS  
MONITORS  
NUCLEAR EMULSIONS  
OPTICAL MEASURING INSTRUMENTS  
RADIATION HAZARDS  
SAFETY DEVICES  
SOLAR INSTRUMENTS  
VELA SATELLITES  
VIEW EFFECTS  
RADIATION MEDICINE  
0401 0405 0411  
NT RADIOBIOLOGY  
BT #MEDICAL SCIENCE  
RT ANTIRADIATION DRUGS  
HEALTH PHYSICS  
RADIATION EFFECTS  
RADIATION SICKNESS  
RADIOPATHOLOGY  
RADIATION METEOROID SPACECRAFT  
3001 3005 3009 3110  
RT METEORIDS  
RADIATION MEASUREMENTS  
SPACECRAFT  
SPACECRAFT CONFIGURATIONS  
RADIATION METERS  
USE RADIATION MEASURING INSTRUMENTS  
RADIATION NOISE  
USE ELECTROMAGNETIC NOISE  
RADIATION PRESSURE  
0101 1408 2902  
(DYNES PER CM SQUARED, AS  
DISTINGUISHED FROM RADIANT FLUX  
DENSITY--DYNES PER CM-SEC)  
NT ELECTRON PRESSURE  
ILLUMINANCE  
LUMENS  
LUMINANCE  
LUMINOUS INTENSITY  
SOUND PRESSURE  
BT #PRESSURE  
RT BAROCLINIC WAVES  
BESSEL-BREDICHIN THEORY  
CORPUSCULAR RADIATION  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION

# NASA TREASURES (ALPHABETICAL LISTING)

PARTICLE FLUX DENSITY  
#PERTURBATION  
RADIANT FLUX DENSITY  
SOLAR FLUX DENSITY  
SOLAR RADIATION  
SOLAR WIND  
STELLAR WINDS  
RADIATION PROTECTION  
0411 0508 3305  
UF RADIATION CONTROL  
NT RADIATION SHIELDING  
SOLAR RADIATION SHIELDING  
BT #PROTECTION  
RT ANTIRADIATION DRUGS  
HEALTH PHYSICS  
RADIATION DOSAGE  
RADIATION EFFECTS  
SYNCHROTRON RADIATION  
THERMAL PROTECTION  
VISORS  
RADIATION PYROMETERS  
1408  
BT #MEASURING INSTRUMENTS  
PYROMETERS  
TEMPERATURE MEASURING INSTRUMENTS  
RT BOLOMETERS  
OPTICAL PYROMETERS  
TEMPERATURE MEASUREMENT  
THERMOCOUPLE PYROMETERS  
RADIATION RESISTANCE  
USE RADIATION TOLERANCE  
RADIATION SHIELDING  
0508 1802 3009 3110 3305  
UF NUCLEAR SHIELDING  
NT SOLAR RADIATION SHIELDING  
BT #PROTECTION  
RADIATION PROTECTION  
#SHIELDING  
RT ABSORBERS (MATERIALS)  
#ATTENUATORS  
BORAL  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC SHIELDING  
GAMMA RAYS  
INSULATED STRUCTURES  
MAGNETIC SHIELDING  
NEUTRON ABSORBERS  
NEUTRON FLUX DENSITY  
NEUTRONS  
#NUCLEAR REACTORS  
PROTONS  
RADIATION HAZARDS  
RADIO FREQUENCY SHIELDING  
REACTOR MATERIALS  
#REFLECTORS  
SAFETY DEVICES  
SPACECRAFT SHIELDING  
STOPPING POWER  
TOWER SHIELDING REACTOR 2  
RADIATION SICKNESS  
0401 0405 0408 0411  
BT #DISEASES  
RT ANTIRADIATION DRUGS  
DERMATITIS  
HEALTH PHYSICS  
RADIATION INJURIES  
RADIATION MEDICINE  
RADIOPATHOLOGY  
RADIATION SOURCES  
2402 2403 2406 2902 3304  
UF COHERENT SOURCES  
BT MONOCHROMATORS  
NEUTRON SOURCES  
POINT SOURCES  
RT CORPUSCULAR RADIATION  
DUOCHROMATORS  
#ELECTROMAGNETIC RADIATION  
ELECTRON SOURCES  
EXTARS  
GENERATORS  
HEAT SOURCES  
#ION SOURCES  
LIGHT SOURCES  
PULSARS  
RADIO SOURCES (ASTRONOMY)  
RADIOACTIVE MATERIALS  
-SOUND GENERATORS  
SOURCES  
RADIATION SPECTRA  
1411 2402 2406 2902 2903  
NT ABSORPTION SPECTRA  
BALMER SERIES

**NASA-THESAURUS (ALPHABETICAL LISTING)**

D LINES  
ELECTROMAGNETIC SPECTRA  
ELECTRONIC SPECTRA  
EMISSION SPECTRA  
FRAUNHOFER LINES  
H ALPHA LINE  
H BETA LINE  
H GAMMA LINE  
H LINES  
HERZBERG BANDS  
INFRARED SPECTRA  
K LINES  
LINE SPECTRA  
LYMAN SPECTRA  
MICROWAVE SPECTRA  
PASCHEN SERIES  
RADIO SPECTRA  
RAMAN SPECTRA  
RYDBERG SERIES  
SOLAR SPECTRA  
STELLAR SPECTRA  
TELLURIC LINES  
ULTRAVIOLET SPECTRA  
VIBRATIONAL SPECTRA  
BT \*SPECTRA  
RT ASTRONOMICAL SPECTROSCOPY  
ENERGY SPECTRA  
MASS SPECTRA  
NOISE SPECTRA  
PLASMA SPECTRA  
RADIATION THERAPY  
0405 0411  
UF RADIOTHERAPY  
BT THERAPY  
RT CANCER  
\*MEDICAL SCIENCE  
PATHOLOGY  
RADIATION EFFECTS  
RADIATION TOLERANCE  
0411 1406  
UF RADIATION RESISTANCE  
RADIOSENSITIVITY  
BT \*SENSITIVITY  
TOLERANCES (PHYSIOLOGY)  
RT HUMAN TOLERANCES  
\*IRRADIATION  
RADIATION DOSAGE  
RADIATION EFFECTS  
RADIATION INJURIES  
RESISTANCE  
TOLERANCES (MECHANICS)  
RADIATIVE HEAT TRANSFER  
1803 2402 3303  
BT HEAT TRANSFER  
HEAT TRANSMISSION  
RADIATIVE TRANSFER  
\*TRANSMISSION  
RT CONCENTRATORS  
CONVECTIVE HEAT TRANSFER  
COOLING FINS  
HEAT RADIATORS  
INFRARED REFLECTION  
NEAR INFRARED RADIATION  
RADIANT COOLING  
RADIANT HEATING  
SATELLITE TEMPERATURE  
SPACECRAFT RADIATORS  
STEPAN-BOLTZMANN LAW  
SURFACE COOLING  
VIEW EFFECTS  
RADIATIVE LIFETIME  
2404  
RT \*DECAY  
HALF LIFE  
RADIATIVE RECOMBINATION  
0602 0605 2402  
BT ELECTRON-ION RECOMBINATION  
ELECTRON RECOMBINATION  
\*RECOMBINATION REACTIONS  
RT AIRGLOW  
ATOMIC RECOMBINATION  
CARRIER INJECTION  
DEIONIZATION  
LIGHTNING  
RADIATIVE TRANSFER  
2311 2402 3303  
NT RADIATIVE HEAT TRANSFER  
RT COSMIC RAYS  
\*ELECTROMAGNETIC RADIATION  
ENERGY TRANSFER  
\*EXTRATERRESTRIAL RADIATION  
GALACTIC RADIATION

HEAT TRANSFER  
HEAT TRANSMISSION  
INTERSTELLAR RADIATION  
NEAR INFRARED RADIATION  
PLANETARY ATMOSPHERES  
POLARIZED ELECTROMAGNETIC RADIATION  
RADIANT HEATING  
RADIATION  
RADIO BURSTS  
RADIO STARS  
SOLAR RADIATION  
STELLAR ATMOSPHERES  
STELLAR RADIATION  
RADIATORS  
2402 2406 3303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ANTENNAS  
HEAT RADIATORS  
SOUND TRANSDUCERS  
THERMOSIPHONS  
RADICALS  
0603 0604 2406  
RT FREE RADICALS  
ROOTS  
VANADYL RADICAL  
RADII  
1902  
UF RADIUS  
BT \*DIMENSIONS  
EUCLIDEAN GEOMETRY  
\*GEOMETRY  
RT CIRCLES (GEOMETRY)  
CIRCUMFERENCES  
DIAMETERS  
LINES (GEOMETRY)  
RADIO FREQUENCIES  
SEGMENTS  
RADIO ALTIMETERS  
0705 1401 1402 1407  
UF RADAR ALTIMETERS  
BT \*AIRCRAFT INSTRUMENTS  
ALTIMETERS  
DISTANCE MEASURING EQUIPMENT  
\*FLIGHT INSTRUMENTS  
\*MEASURING INSTRUMENTS  
RT AUTOMATIC PILOTS  
INSTRUMENT LANDING SYSTEMS  
RADAR MEASUREMENT  
RADIO ANTENNAS  
0701 0705 0901  
BT ANTENNAS  
\*CONDUCTORS  
\*RADIO EQUIPMENT  
RT AIRCRAFT ANTENNAS  
DIRECTIONAL ANTENNAS  
OMNIDIRECTIONAL ANTENNAS  
RADIO ASTRONOMY  
RADIO BEACONS  
RADIO RECEIVERS  
RADIO TRANSMITTERS  
RHOMBIC ANTENNAS  
SATELLITE ANTENNAS  
SCHWARZSCHILD ANTENNAS  
TWO REFLECTOR ANTENNAS  
WHIP ANTENNAS  
RADIO ASTRONOMY  
1405 1411 1412 3001  
RT ASTRONOMICAL OBSERVATORIES  
ASTRONOMICAL SPECTROSCOPY  
BRIGHTNESS TEMPERATURE  
EXTRATERRESTRIAL RADIO WAVES  
MICHELSON INTERFEROMETERS  
PHASE SWITCHING INTERFEROMETERS  
PULSARS  
QUASARS  
RADAR ASTRONOMY  
RADIO ANTENNAS  
RADIO GALAXIES  
RADIO HORIZONS  
RADIO INTERFEROMETERS  
RADIO OBSERVATION  
RADIO PHYSICS  
RADIO SOURCES (ASTRONOMY)  
RADIO STARS  
RADIO TELESCOPES  
RADIO TRACKING  
SAS-A  
SAS-B  
SAS-C  
SAS-D

**RADIO COMMUNICATION**

VERY HIGH FREQUENCY RADIO EQUIPMENT  
RADIO ASTRONOMY EXPLORER SATELLITE  
3107 3110  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
EXPLORER SATELLITES  
\*SATELLITES  
RADIO ATTENUATION  
0705 0707 0710 3105  
BT \*ATTENUATION  
WAVE ATTENUATION  
RT ATMOSPHERIC ATTENUATION  
ELECTROMAGNETIC ABSORPTION  
RADAR ATTENUATION  
WAVE PROPAGATION  
RADIO ATTENUATION MEASUREMENT PROJECT  
0705 3409  
UF HAM PROJECT  
BT \*PROGRAMS  
PROJECTS  
RADIO AURORAS  
1301 1302 2402 2903  
BT \*ATMOSPHERIC RADIATION  
AURORAS  
RT DISTURBANCES  
IONOSPHERICS  
NIGHTGLOW  
SOLAR ACTIVITY  
RADIO BEACONS  
0705 0710 2102 2103  
UF RADIO RANGES  
NT OMNIDIRECTIONAL RADIO RANGES  
SELF CALIBRATING OMNIRANGE  
BT BEACONS  
\*NAVIGATION AIDS  
\*RADIO EQUIPMENT  
RADIO TRANSMITTERS  
\*TRANSMITTERS  
RT AIRPORT BEACONS  
HOMING DEVICES  
INSTRUMENT LANDING SYSTEMS  
\*LANDING AIDS  
MARKERS  
ORBIS  
ORBIS CAL SATELLITE  
RADIO ANTENNAS  
RADIO DIRECTION FINDERS  
RADIO HORIZONS  
\*RANGES (FACILITIES)  
RADIO BLACKOUT  
USE BLACKOUT (PROPAGATION)  
RADIO BROADCASTING  
USE BROADCASTING  
RADIO BURSTS  
1307 2902  
NT SOLAR RADIO BURSTS  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
BT \*BURSTS  
RT DISTURBANCES  
PULSARS  
QUASARS  
RADIATIVE TRANSFER  
RADIO SOURCES (ASTRONOMY)  
SOLAR RADIO EMISSION  
STELLAR RADIATION  
RADIO COMMUNICATION  
0702 0705  
NT PULSE FREQUENCY MODULATION  
TELEMETRY  
RADIO RELAY SYSTEMS  
RADIO TELEGRAPHY  
RADIO TELEMETRY  
TELEPHONY  
TELEPHOTOMETRY  
BT \*TELECOMMUNICATION  
RT AIRCRAFT COMMUNICATION  
BLACKOUT (PROPAGATION)  
BROADCASTING  
CIRCUMLUNAR COMMUNICATION  
\*COMMUNICATION EQUIPMENT  
GROUND-AIR-GROUND COMMUNICATIONS  
INTERPLANETARY COMMUNICATION  
INTERSTELLAR COMMUNICATION  
LUNAR COMMUNICATION  
POINT TO POINT COMMUNICATIONS  
PULSE COMMUNICATION  
\*RADIO EQUIPMENT  
RADIO HORIZONS  
RADIO METEOROLOGY



# RADIO CONTROL

RADIO OBSERVATION  
 RADIO RECEPTION  
 RADIO WAVES  
 RADIOTELEPHONES  
 REENTRY COMMUNICATION  
 SPACE COMMUNICATION  
 SPACECRAFT COMMUNICATION  
 TELEGRAPH SYSTEMS  
 TELEMETRY  
 TELEVISION SYSTEMS  
 TRANSOCEANIC COMMUNICATION  
 UNDERGROUND COMMUNICATION  
 VOCODERS

RADIO CONTROL  
 0705 0707 2102 3110  
 BT REMOTE CONTROL  
 RT AIRCRAFT CONTROL  
 #AUTOMATIC CONTROL  
 DEEP SPACE INSTRUMENTATION FACILITY  
 #GROUND BASED CONTROL  
 MISSILE CONTROL  
 #SPACECRAFT CONTROL

RADIO DIRECTION FINDERS  
 0701 0705 0709  
 UP DIRECTION FINDERS (RADIO)  
 RADAR DIRECTION FINDERS  
 BT #AIRCRAFT INSTRUMENTS  
 BEACONS  
 #DISPLAY DEVICES  
 INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 #NAVIGATION AIDS  
 POSITION INDICATORS  
 RT AIRCRAFT EQUIPMENT  
 BEACONS  
 COMPASSES  
 #FLIGHT INSTRUMENTS  
 GYROCOMPASSES  
 HOMING  
 HOMING DEVICES  
 RADIO BEACONS  
 RADIO NAVIGATION  
 RADIOGONIOMETERS  
 VHF OMNIRANGE NAVIGATION

RADIO ECHOES  
 0705 0710 1302 2402  
 UP RADIO REFLECTION  
 BT #ECHOES  
 RT ANGELS  
 AURORAL ECHOES  
 GHOSTS  
 HARVARD RADIO METEOR PROJECT  
 INFRARED REFLECTION  
 LUNAR ECHOES  
 RADAR REFLECTORS  
 RADIO PHYSICS  
 RADIO TRANSMISSION  
 ULTRAVIOLET REFLECTION

RADIO ELECTRONICS  
 0702 0705 1002 3404  
 RT ELECTRONICS  
 #RADIO EQUIPMENT  
 RADIO PHYSICS

RADIO EMISSION  
 1302 2402 2901 2902 2903  
 UP THERMAL RADIO EMISSION  
 NT SOLAR RADIO BURSTS  
 SOLAR RADIO EMISSION  
 TYPE 2 BURSTS  
 TYPE 3 BURSTS  
 TYPE 4 BURSTS  
 TYPE 5 BURSTS  
 BT #DECAY  
 #ELECTROMAGNETIC RADIATION  
 EMISSION  
 RADIO WAVES  
 RT EXTRATERRESTRIAL RADIO WAVES  
 QUASARS  
 RADIO GALAXIES  
 RADIO SCATTERING  
 RADIO SOURCES (ASTRONOMY)  
 RADIO STARS  
 RADIO TRANSMISSION

RADIO ENERGY  
 USE RADIANT FLUX DENSITY  
 RADIO WAVES

#RADIO EQUIPMENT  
 0701 0705 0905  
 RT ENDORADIOSONDES  
 IONOSONDES  
 RADIO ANTENNAS  
 RADIO BEACONS

RADIO FILTERS  
 RADIO RECEIVERS  
 RADIO TELESCOPES  
 RADIO TRANSMITTERS  
 RADIOSONDES  
 RADIOTELEPHONES  
 RAWINSONDES  
 SELF CALIBRATING OMNIRANGE  
 SONOBUOYS  
 SPACECRAFT ANTENNAS  
 SUPERHETERODYNE RECEIVERS  
 TRANSMITTER RECEIVERS  
 TRANSPONDERS  
 VERY HIGH FREQUENCY RADIO EQUIPMENT  
 WHISTLER RECORDERS  
 RT AIRBORNE EQUIPMENT  
 ANTENNAS  
 BROADCASTING  
 #COMMUNICATION EQUIPMENT  
 CYLINDRICAL ANTENNAS  
 JAMMERS  
 #ONBOARD EQUIPMENT  
 #RADAR EQUIPMENT  
 RADIO COMMUNICATION  
 RADIO ELECTRONICS  
 RADIO NAVIGATION  
 RADIO RELAY SYSTEMS  
 RADIO TRACKING  
 RADIO WAVES

RADIO FILTERS  
 0701 0705 0905  
 BT #ELECTRIC FILTERS  
 #RADIO EQUIPMENT  
 RT FILTERS  
 INTERFERENCE GRATING  
 MICROWAVE FILTERS  
 RADAR FILTERS  
 RADIO FREQUENCIES  
 RADIO FREQUENCY INTERFERENCE

RADIO FREQUENCIES  
 0705 0710 1406 2309 2402  
 NT C BAND  
 EXTREMELY HIGH FREQUENCIES  
 EXTREMELY LOW RADIO FREQUENCIES  
 HIGH FREQUENCIES  
 LOW FREQUENCIES  
 MICROWAVE FREQUENCIES  
 P BAND  
 SUBAUDIBLE FREQUENCIES  
 SUPERHIGH FREQUENCIES  
 ULTRAHIGH FREQUENCIES  
 VERY HIGH FREQUENCIES  
 VERY LOW FREQUENCIES  
 BT #FREQUENCIES  
 RT AUDIO FREQUENCIES  
 CARRIER FREQUENCIES  
 INTERMEDIATE FREQUENCIES  
 RADIO  
 RADIO FILTERS  
 RADIO SIGNALS  
 RADIO SPECTRA  
 RADIO TRANSMISSION  
 RADIO WAVES

RADIO FREQUENCY DISCHARGE  
 0705 0710 2402  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT ELECTRODELESS DISCHARGES  
 ELECTRON EMISSION  
 RADIO FREQUENCY INTERFERENCE  
 RADIO SPECTRA  
 RING DISCHARGE

RADIO FREQUENCY HEATING  
 2402 2502 3303  
 BT #HEATING  
 RT INDUCTION HEATING  
 PLASMA HEATING

RADIO FREQUENCY IMPEDANCE PROBES  
 2402 2901 2903 3108  
 BT IMPEDANCE PROBES  
 #MEASURING INSTRUMENTS  
 IMPEDANCE MEASUREMENTS  
 RT ION PROBES  
 MICROWAVE PROBES  
 PLASMA PROBES  
 RADIO PROBING

RADIO FREQUENCY INTERFERENCE  
 0704 0705  
 UP RADIO INTERFERENCE  
 NT ATMOSPHERICS  
 BLACKOUT (PROPAGATION)  
 CHIRP

# NASA THESAURUS (ALPHABETICAL LISTING)

CHIRP SIGNALS  
 COSMIC NOISE  
 DAWN CHORUS  
 ELECTROMAGNETIC NOISE  
 HISS  
 IONOSPHERIC CROSS MODULATION  
 IONOSPHERIC NOISE  
 IONOSPHERICS  
 POLAR RADIO BLACKOUT  
 SHOT NOISE  
 SUDDEN ENHANCEMENT OF ATMOSPHERICS  
 THERMAL NOISE  
 WHISTLERS

#ELECTROMAGNETIC INTERFERENCE  
 RT CLUTTER  
 CROSS COUPLING  
 ELECTROMAGNETIC COMPATIBILITY  
 ELECTRONIC COUNTERMEASURES  
 EXTRATERRESTRIAL RADIO WAVES  
 INTERFERENCE  
 INTERFERENCE GRATING  
 JAMMING  
 NOISE STORMS  
 RADIO FILTERS  
 RADIO FREQUENCY DISCHARGE  
 RADIO RECEIVERS  
 RADIO RECEPTION  
 RADIO TRANSMISSION  
 RADIO WAVES  
 SIGNAL PADING  
 WHITE NOISE

RADIO FREQUENCY NOISE  
 USE ELECTROMAGNETIC NOISE  
 RADIO FREQUENCY RADIATION  
 USE RADIO WAVES  
 RADIO FREQUENCY SHIELDING  
 0701 0705 2402  
 BT ELECTROMAGNETIC SHIELDING  
 #SHIELDING  
 RT RADIATION SHIELDING  
 SPACECRAFT SHIELDING

RADIO GALAXIES  
 0708 0710 3001  
 BT #CELESTIAL BODIES  
 GALAXIES  
 RT RADIO SOURCES (ASTRONOMY)  
 QUASARS  
 RADIO ASTRONOMY  
 RADIO EMISSION  
 RADIO STARS

RADIO HORIZONS  
 0705 0710 0901  
 BT HORIZON  
 RT HORIZON SCANNERS  
 RADIO ASTRONOMY  
 RADIO BEACONS  
 RADIO COMMUNICATION  
 RADIO TRANSMISSION

RADIO INTERFERENCE  
 USE RADIO FREQUENCY INTERFERENCE  
 RADIO INTERFEROMETERS  
 0705 0709 1109 1405  
 BT INTERFEROMETERS  
 #MEASURING INSTRUMENTS  
 RT ASTROPHYSICS  
 RADIO ASTRONOMY  
 RADIO TELESCOPES

RADIO METEOROLOGY  
 0705 1301 1302 2002 2003  
 BT #METEOROLOGY  
 RT ATMOSPHERICS  
 METEOROLOGICAL RADAR  
 RADIO COMMUNICATION  
 RADIOSONDES

RADIO METEORS  
 0705 3005  
 BT #CELESTIAL BODIES  
 METEORIODS  
 RT ATMOSPHERIC IONIZATION  
 METEOR TRAILS

RADIO NAVIGATION  
 0202 0705 1402 1703 2102 2103  
 NT DECCA NAVIGATION  
 HYPERBOLIC NAVIGATION  
 LORAC NAVIGATION SYSTEM  
 LORAN  
 LORAN C  
 LORAN D  
 SHORAN  
 TACAN  
 VHF OMNIRANGE NAVIGATION  
 BT #NAVIGATION

# NASA THESAURUS (ALPHABETICAL LISTING)

RT AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 AIRCRAFT GUIDANCE  
 ALL-WEATHER AIR NAVIGATION  
 ASTRONAVIGATION  
 AUTOMATIC FLIGHT CONTROL  
 CELESTIAL NAVIGATION  
 COLLISION AVOIDANCE  
 DEAD RECKONING  
 DISTANCE MEASURING EQUIPMENT  
 DOPPLER NAVIGATION  
 #FLIGHT CONTROL  
 #GUIDANCE (MOTION)  
 HOMING DEVICES  
 INERTIAL NAVIGATION  
 INTERPLANETARY NAVIGATION  
 #NAVIGATION AIDS  
 OMNIDIRECTIONAL RADIO RANGES  
 POSITIONING  
 RADAR NAVIGATION  
 RADIO DIRECTION FINDERS  
 #RADIO EQUIPMENT  
 RADIO TRACKING  
 SATELLITE NAVIGATION SYSTEMS  
 SOLAR COMPASSES  
 SPACE NAVIGATION  
 SURFACE NAVIGATION

RADIO OBSERVATION  
 0705 0709  
 RT OBSERVATION  
 RADIO ASTRONOMY  
 RADIO COMMUNICATION  
 RADIO PROBING  
 RADIO RECEPTION  
 RADIO TRACKING

RADIO PHYSICS  
 2402  
 RT PHYSICS  
 RADIO ASTRONOMY  
 RADIO ECHOES  
 RADIO ELECTRONICS  
 RADIO PROBING  
 RADIO SPECTROSCOPY  
 RADIO WAVES  
 #THEORETICAL PHYSICS

RADIO PROBING  
 0705 0708  
 RT RADIO FREQUENCY IMPEDANCE PROBES  
 RADIO OBSERVATION  
 RADIO PHYSICS  
 RADIO TELESCOPES

RADIO PROPAGATION  
 USE RADIO TRANSMISSION

RADIO RANGE  
 0702 0705 0710  
 (EXCLUDES RADIO BEACONS)  
 BT DISTANCE  
 FREQUENCY RANGES  
 #RANGE (EXTREMES)  
 RT RADAR RANGE

RADIO RANGES  
 USE RADIO BEACONS

RADIO RECEIVERS  
 0701 0705 0901 0904  
 NT SUPERHETERODYNE RECEIVERS  
 TRANSMITTER RECEIVERS  
 WHISTLER RECORDERS  
 BT #COMMUNICATION EQUIPMENT  
 #RADIO EQUIPMENT

RT DATA LINKS  
 DIRECTORS (ANTENNA ELEMENTS)  
 ELECTROMAGNETIC NOISE  
 INTERMEDIATE FREQUENCY AMPLIFIERS  
 LOUDSPEAKERS  
 RADAR RECEIVERS  
 RADIO ANTENNAS  
 RADIO FREQUENCY INTERFERENCE  
 RADIO RECEPTION  
 RADIO TELESCOPES  
 RADIO TRANSMITTERS  
 RECEIVERS  
 TELEVISION RECEPTION  
 TRANSPONDERS  
 TUNERS

RADIO RECEPTION  
 0705 0710 2402  
 RT HOMODYNE RECEPTION  
 RADAR RECEPTION  
 RADIO COMMUNICATION  
 RADIO FREQUENCY INTERFERENCE  
 RADIO OBSERVATION  
 RADIO RECEIVERS

RADIO RELAY SYSTEMS  
 RADIO TRANSMISSION  
 RECEIVING  
 SCATTER PROPAGATION  
 TELEVISION RECEPTION

RADIO REFLECTION  
 USE RADIO ECHOES

RADIO RELAY SYSTEMS  
 0702 0705 0710 0901 0905  
 BT RADIO COMMUNICATION  
 #TELECOMMUNICATION  
 RT #COMMUNICATION EQUIPMENT  
 COMMUNICATION SATELLITES  
 DATA LINKS  
 DEFENSE COMMUNICATIONS SATELLITE  
 SYSTEM  
 GLOBAL TRACKING NETWORK  
 MOLNIYA SATELLITES  
 #RADIO EQUIPMENT  
 RADIO RECEPTION  
 RADIO TELEGRAPHY  
 RADIO TELEMETRY  
 RADIO TRANSMISSION  
 RELAY  
 TDR SATELLITES

RADIO SCATTERING  
 0705 1301 1302  
 RT ATMOSPHERIC DIFFUSION  
 ATMOSPHERIC SCATTERING  
 RADIO EMISSION  
 RADIO SIGNALS  
 RADIO TRANSMISSION  
 SCATTER PROPAGATION  
 SIGNAL FADING  
 #SIGNAL TRANSMISSION  
 RADIO SIGNAL ABSORPTION  
 USE ELECTROMAGNETIC ABSORPTION  
 RADIO TRANSMISSION

RADIO SIGNAL PROPAGATION  
 USE RADIO TRANSMISSION

RADIO SIGNALS  
 0702 0705 0710 2402  
 RT BROADCASTING  
 RADIO FREQUENCIES  
 RADIO SCATTERING  
 RADIO TRANSMISSION  
 RADIO WAVES  
 SIGNAL DISTORTION  
 SIGNAL MIXING  
 WHISTLERS

RADIO SOURCES (ASTRONOMY)  
 0705 2402 2901 2903  
 (LIMITED TO EXTRATERRESTRIAL RADIO SOURCES)  
 NT CASSIOPEIA A  
 PULSARS  
 QUASARS  
 RADIO GALAXIES  
 RADIO STARS  
 BT #CELESTIAL BODIES  
 RT EXTRATERRESTRIAL RADIO WAVES  
 GALAXIES  
 HYDROXYL EMISSION  
 MILKY WAY GALAXY  
 RADIATION SOURCES  
 RADIO ASTRONOMY  
 RADIO BURSTS  
 RADIO EMISSION  
 SOURCES

RADIO SPECTRA  
 0705 2402  
 NT MICROWAVE SPECTRA  
 BT ELECTROMAGNETIC SPECTRA  
 RADIATION SPECTRA  
 #SPECTRA  
 BT CARRIER WAVES  
 ELECTROMAGNETIC NOISE  
 RADIANT FLUX DENSITY  
 RADIO FREQUENCIES  
 RADIO FREQUENCY DISCHARGE  
 RADIO SPECTROSCOPY  
 RADIO TRANSMISSION  
 RADIO WAVES

RADIO SPECTROSCOPY  
 0705 1411 2402  
 BT #SPECTROSCOPY  
 RT ASTRONOMICAL SPECTROSCOPY  
 RADIO PHYSICS  
 RADIO SPECTRA  
 ULTRAVIOLET SPECTRA  
 ULTRAVIOLET SPECTROSCOPY  
 X RAY SPECTROSCOPY

# RADIO TRANSMISSION

RADIO STARS  
 0705 0709 2402 2901 3001  
 NT PULSARS  
 BT #CELESTIAL BODIES  
 RADIO SOURCES (ASTRONOMY)  
 STARS  
 RT QUASARS  
 RADIATIVE TRANSFER  
 RADIO ASTRONOMY  
 RADIO EMISSION  
 RADIO GALAXIES  
 STELLAR RADIATION

RADIO TELEGRAPHY  
 0702 0705  
 BT RADIO COMMUNICATION  
 #TELECOMMUNICATION  
 RT #COMMUNICATION EQUIPMENT  
 KEYING  
 MORSE CODE  
 RADIO RELAY SYSTEMS

RADIO TELEMETRY  
 0705 0708 1002 1409  
 NT PULSE FREQUENCY MODULATION  
 TELEMETRY  
 BT RADIO COMMUNICATION  
 #SIGNAL TRANSMISSION  
 #TELECOMMUNICATION  
 TELEMETRY  
 RT #COMMUNICATION EQUIPMENT  
 DATA TRANSMISSION  
 GROUND SUPPORT EQUIPMENT  
 #MEASURING INSTRUMENTS  
 PULSE MODULATION  
 RADIO RELAY SYSTEMS  
 RADIO TRACKING  
 RADIONETBOGROGRAPHS  
 RADIOSONDES  
 SPACE COMMUNICATION  
 WIRELESS COMMUNICATIONS

RADIO TELESCOPES  
 0705 1412 2402 3001  
 NT KILOMETER WAVE ORBITING TELESCOPE  
 BT #RADIO EQUIPMENT  
 #TELESCOPES  
 RT ANTENNAS  
 ASTRONOMICAL TELESCOPES  
 JODRELL BANK OBSERVATORY  
 #OPTICAL EQUIPMENT  
 PHASE SWITCHING INTERFEROMETERS  
 RADIO ASTRONOMY  
 RADIO INTERFEROMETERS  
 RADIO PROBING  
 RADIO RECEIVERS

RADIO TRACKING  
 0705 0709 1109  
 BT #TRACKING (POSITION)  
 RT RADAR SCANNING  
 RADAR TRACKING  
 RADIO ASTRONOMY  
 #RADIO EQUIPMENT  
 RADIO NAVIGATION  
 RADIO OBSERVATION  
 RADIO TELEMETRY  
 RANGE AND RANGE RATE TRACKING  
 RANGE FINDING  
 RAWINSONDES  
 SPACECRAFT TRACKING

RADIO TRANSMISSION  
 0705 0901 2402  
 UP RADIO PROPAGATION  
 RADIO SIGNAL ABSORPTION  
 RADIO SIGNAL PROPAGATION  
 NT DOUBLE SIDEBAND TRANSMISSION  
 IONOSPHERIC P-SCATTER PROPAGATION  
 IONOSPHERIC PROPAGATION  
 MICROWAVE TRANSMISSION  
 MULTIPATH TRANSMISSION  
 SHORT WAVE RADIO TRANSMISSION  
 SINGLE SIDEBAND TRANSMISSION  
 TRANSQUATORIAL PROPAGATION  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 RT ATMOSPHERIC ATTENUATION  
 BROADCASTING  
 DATA TRANSMISSION  
 FREQUENCY SHIFT KEYING  
 MAGNETOIONICS  
 #MODULATION  
 MULTIPLEXING  
 PULSE COMMUNICATION  
 PULSE FREQUENCY MODULATION

# RADIO TRANSMITTERS

TELEMETRY  
RADAR TRANSMISSION  
RADIO ECHOES  
RADIO EMISSION  
RADIO FREQUENCIES  
RADIO FREQUENCY INTERFERENCE  
RADIO HORIZONS  
RADIO RECEPTION  
RADIO RELAY SYSTEMS  
RADIO SCATTERING  
RADIO SIGNALS  
RADIO SPECTRA  
RADIO TRANSMITTERS  
RADIOE MATERIALS  
SATELLITE TRANSMISSION  
SCATTER PROPAGATION  
SCHMIDT APPROXIMATION  
VOICE OF AMERICA  
WAVE ATTENUATION  
WAVE PROPAGATION

RADIO TRANSMITTERS  
0705 0905  
BT ENDORADIOSONDES  
IONOSONDES  
OMNIDIRECTIONAL RADIO RANGES  
RADIO BEACONS  
RADIOMETEOROLOGRAPH  
RADIOSONDES  
RADIOTELEPHONES  
RAWINSONDES  
SELF CALIBRATING OMNIRANGE  
SONOBOOYS  
TRANSMITTER RECEIVERS  
BT #RADIO EQUIPMENT  
#TRANSMITTERS  
RT MULTICHANNEL COMMUNICATION  
QUARTZ CRYSTALS  
RADIO ANTENNAS  
RADIO RECEIVERS  
RADIO TRANSMISSION  
TELEVISION TRANSMISSION  
TRANSPONDERS

RADIO WAVE REFRACTION  
0705 0710 1302 2309 2402  
BT ATMOSPHERIC REFRACTION  
#REFRACTION  
RT WAVE DISPERSION

RADIO WAVES  
0705 0710 2309 2402 2901 2903  
UF RADIO ENERGY  
RADIO FREQUENCY RADIATION  
NT DECAHETERIC WAVES  
DECINETER WAVES  
EXTRATERRESTRIAL RADIO WAVES  
GALACTIC RADIO WAVES  
LONG WAVE RADIATION  
MICROWAVES  
MILLIMETER WAVES  
RADIO EMISSION  
SHORT WAVE RADIATION  
SKY WAVES  
SOLAR RADIO BURSTS  
SOLAR RADIO EMISSION  
SUBMILLIMETER WAVES  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
BT #ELECTROMAGNETIC RADIATION  
RT ATMOSPHERICS  
COHERENT ELECTROMAGNETIC RADIATION  
ELECTROMAGNETIC NOISE  
#EXTRATERRESTRIAL RADIATION  
FAR INFRARED RADIATION  
#FREQUENCIES  
GROUND WAVE PROPAGATION  
MONOCHROMATIC RADIATION  
MULTIPATH TRANSMISSION  
PLANETARY RADIATION  
POLARIZED ELECTROMAGNETIC RADIATION  
RADIO COMMUNICATION  
#RADIO EQUIPMENT  
RADIO FREQUENCIES  
RADIO FREQUENCY INTERFERENCE  
RADIO PHYSICS  
RADIO SIGNALS  
RADIO SPECTRA  
SCATTER PROPAGATION  
SOLAR RADIATION  
THERMAL RADIATION  
TRANSVERSE WAVES  
TRAVELING WAVES

TROPOSPHERIC WAVES  
RADIOACTIVE AGE DETERMINATION  
1306 1406 2406  
UF RADIOACTIVE DATING  
RT AGING  
FOSSILS  
GEOCHRONOLOGY  
HALF LIFE  
MEASUREMENT  
RADIOACTIVE ISOTOPES  
RADIOCHEMISTRY  
RADIOGENIC MATERIALS  
TIME MEASUREMENT

RADIOACTIVE CONTAMINANTS  
0401 0411 0505 2406  
BT CONTAMINANTS  
RT ATMOSPHERIC COMPOSITION  
FALLOUT  
NUCLEAR RADIATION  
RADIATION EFFECTS  
RADIATION HAZARDS  
RADIOACTIVE DEBRIS  
RADIOACTIVE MATERIALS  
RADIOACTIVE WASTES

RADIOACTIVE DATING  
USE RADIOACTIVE AGE DETERMINATION  
RADIOACTIVE DEBRIS  
1301 1302 2205 2406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT DEBRIS  
RT FALLOUT  
RADIOACTIVE CONTAMINANTS  
RADIOACTIVE MATERIALS  
RADIOACTIVE WASTES  
RADIOGENIC MATERIALS

RADIOACTIVE DECAY  
2405 2406  
UF PARTICLE DECAY  
NT ALPHA DECAY  
NEUTRON EMISSION  
BT #DECAY  
RT #NUCLEAR REACTIONS  
ASTATINE ISOTOPES  
EMISSION  
GAMMA RAY BEAMS  
GAMMA RAYS  
HALF LIFE  
HYPERNUCLEI  
NUCLEAR FISSION  
NUCLEAR RADIATION  
PHOTOPRODUCTION  
POST-BLAST NUCLEAR RADIATION  
RADIOACTIVITY  
RADIOGENIC MATERIALS  
THERMONUCLEAR REACTIONS  
VECTOR CURRENTS

RADIOACTIVE ELEMENTS  
USE RADIOACTIVE ISOTOPES  
RADIOACTIVE FALLOUT PARTICLES  
USE FALLOUT  
#PARTICLES

RADIOACTIVE ISOTOPES  
2406  
UF RADIOACTIVE ELEMENTS  
RADIOACTIVE NUCLIDES  
RADIOISOTOPES  
RT AMERICIUM  
AMERICIUM ISOTOPES  
AMERICIUM 241  
ARSENIC ISOTOPES  
ASTATINE ISOTOPES  
BERKELIUM  
BERYLLIUM 7  
BERYLLIUM 9  
BERYLLIUM 10  
CALIFORNIUM  
CALIFORNIUM ISOTOPES  
CARBON 14  
CESIUM 137  
CESIUM 144  
CESIUM 134  
CESIUM 137  
CESIUM 144  
COBALT 58  
COBALT 60  
COPPER ISOTOPES  
CURIUM  
CURIUM ISOTOPES  
CURIUM 242  
CURIUM 244

# NASA THESAURUS (ALPHABETICAL LISTING)

EINSTEINIUM  
FERMIUM  
GOLD ISOTOPES  
GOLD 198  
INDIUM ISOTOPES  
IODINE 125  
IODINE 131  
IODINE 132  
IRON 59  
KRYPTON 85  
LAWRENCIUM  
MENDELEVIUM  
NEPTUNIUM  
NIOBUM 95  
NITROGEN 16  
NOBELIUM  
PHOSPHORUS 32  
PLUTONIUM  
PLUTONIUM ISOTOPES  
PLUTONIUM 238  
PLUTONIUM 239  
PLUTONIUM 240  
PLUTONIUM 241  
POLONIUM 208  
POLONIUM 209  
POLONIUM 210  
POTASSIUM 38  
POTASSIUM 40  
RUBIDIUM 86  
SODIUM 22  
SODIUM 24  
STRONTIUM 85  
STRONTIUM 88  
STRONTIUM 89  
STRONTIUM 90  
TRANSURANIUM ELEMENTS  
TRITIUM  
URANIUM 232  
URANIUM 233  
URANIUM 238  
XENON 133  
XENON 135  
ZIRCONIUM 95

BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RT ACTINIDE SERIES  
ISOTOPIC LABELING  
RADIOACTIVE AGE DETERMINATION  
RADIOACTIVE MATERIALS  
RADIOACTIVE WASTES  
RADIOISOTOPE BATTERIES  
RADIOPHOSPHORS

RADIOACTIVE MATERIALS  
2203 2205 2406  
RT ACTINIDE SERIES  
FISSION PRODUCTS  
FISSIONABLE MATERIALS  
#IONIZING RADIATION  
ISOTOPES  
MATERIALS  
NUCLEAR FISSION  
NUCLEAR RADIATION  
RADIATION HAZARDS  
RADIATION SOURCES  
RADIOACTIVE CONTAMINANTS  
RADIOACTIVE DEBRIS  
RADIOACTIVE ISOTOPES  
RADIOACTIVE WASTES  
RADIOACTIVITY  
RADIOBIOLOGY  
RADIOCHEMISTRY

RADIOACTIVE NUCLIDES  
USE RADIOACTIVE ISOTOPES  
RADIOACTIVE WASTES  
0505 0602 2402  
BT #WASTES  
RT CONTAMINATION  
ENVIRONMENT POLLUTION  
FISSION PRODUCTS  
POISONING (REACTION INHIBITION)  
#POLLUTION  
RADIATION HAZARDS  
RADIOACTIVE CONTAMINANTS  
RADIOACTIVE DEBRIS  
RADIOACTIVE ISOTOPES  
RADIOACTIVE MATERIALS  
RADIOCHEMISTRY  
RADIOGENIC MATERIALS  
WASTE DISPOSAL

RADIOACTIVITY  
0411 2202 2401 2403 2405 2406 3408

# NASA THESAURUS (ALPHABETICAL LISTING)

# RAFTS

RT ACTIVITY  
ALPHA PARTICLES  
EMISSION  
FALLOUT  
FISSION PRODUCTS  
GAMMA RAYS  
GEOCHEMISTRY  
GEOPHYSICS  
HALF LIFE  
#IONIZING RADIATION  
NUCLEAR RADIATION  
PARTICLE PRODUCTION  
POST-BLAST NUCLEAR RADIATION  
RADIATION  
RADIATION HAZARDS  
RADIOACTIVE DECAY  
RADIOACTIVE MATERIALS  
RADIOCHEMISTRY  
RADIOBIOLOGY  
0403 0411 2406  
BT #MEDICAL SCIENCE  
RADIATION MEDICINE  
RT ANTIRADIATION DRUGS  
BIOLOGY  
DOSIMETERS  
HEALTH PHYSICS  
#IRRADIATION  
MEDICINE  
NUCLEAR RADIATION  
RADIOACTIVE MATERIALS  
RADIOCHEMISTRY  
RADIOCHEMICAL SEPARATION  
0601  
BT RADIOCHEMISTRY  
RT #CHEMICAL REACTIONS  
QUANTITATIVE ANALYSIS  
SEPARATION  
RADIOCHEMISTRY  
0603 2406  
UF REACTOR CHEMISTRY  
NT RADIOCHEMICAL SEPARATION  
RT CHEMICAL ANALYSIS  
CHEMISTRY  
#IONIZING RADIATION  
ISOTOPIC LABELING  
NUCLEAR CHEMISTRY  
NUCLEAR RADIATION  
NUCLEAR RESEARCH  
RADIOACTIVE AGE DETERMINATION  
RADIOACTIVE MATERIALS  
RADIOACTIVE WASTES  
RADIOACTIVITY  
RADIOBIOLOGY  
RADIOGENIC MATERIALS  
1703 1807 2406  
RT #NUCLEAR REACTIONS  
RADIOACTIVE AGE DETERMINATION  
RADIOACTIVE DEBRIS  
RADIOACTIVE DECAY  
RADIOACTIVE WASTES  
TRANSMUTATION  
RADIOGONIOMETERS  
0705 0905 1409  
BT GONIOMETERS  
#MEASURING INSTRUMENTS  
RT RADIO DIRECTION FINDERS  
RADIOGRAPHY  
1407 2402 2406  
UF CINEFLUOROGRAPHY  
CINERADIOGRAPHY  
X RAY PHOTOGRAPHY  
AUTORADIOGRAPHY  
UROGRAPHY  
BT #IMAGERY  
RT BRAGG ANGLE  
CRYSTALLOGRAPHY  
FLASH  
#IRRADIATION  
MATERIALS TESTS  
METALLOGRAPHY  
#NONDESTRUCTIVE TESTS  
#PHOTOGRAPHY  
PNEUMOGRAPHY  
RADIOLOGY  
X RAY ANALYSIS  
X RAY APPARATUS  
X RAY ASTRONOMY  
X RAY DIFFRACTION  
X RAY FLUORESCENCE  
X RAY INSPECTION  
X RAY SPECTROSCOPY  
X RAY TELESCOPES

X RAYS  
RADIOISOTOPE BATTERIES  
0301  
UF ATOMIC BATTERIES  
NT SNAP 9A  
SNAP 7  
SNAP 11  
SNAP 13  
SNAP 15  
SNAP 17  
SNAP 19  
SNAP 21  
SNAP 23  
SNAP 27  
SNAP 29  
BT DIRECT POWER GENERATORS  
#ELECTRIC GENERATORS  
RT ELECTRIC BATTERIES  
FISSION ELECTRIC CELLS  
NUCLEAR AUXILIARY POWER UNITS  
RADIOACTIVE ISOTOPES  
THERMIONIC CONVERTERS  
THERMOELECTRIC GENERATORS  
RADIOLOGY  
0401 0405 0411 2406  
BT #MEDICAL SCIENCE  
RT AEROSPACE MEDICINE  
MEDICINE  
RADIATION  
RADIOGRAPHY  
X RAY ANALYSIS  
RADIOLYSIS  
0602 0603 2202 2406  
BT #CHEMICAL REACTIONS  
DECOMPOSITION  
PHOTOCHEMICAL REACTIONS  
PHOTOLYSIS  
RADIATION EFFECTS  
RADIOMETEOROGRAPHS  
0705 2003 2402 3005  
BT #MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
RADIO TRANSMITTERS  
#RECORDING INSTRUMENTS  
#TRANSMITTERS  
RT RADIO TELEMETRY  
RADIOSONDES  
RADIOMETERS  
1404 1406 1407 1409 2402  
NT DICKE RADIOMETERS  
INFRARED DETECTORS  
INFRARED SCANNERS  
MICROWAVE RADIOMETERS  
SPECTRORADIOMETERS  
BT ACTINOMETERS  
#MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
RT BOLOMETERS  
FOREST FIRE DETECTION  
HORIZON SCANNERS  
INFRARED PHOTOGRAPHY  
INFRARED TRACKING  
KNUDSEN GAGES  
PHOTOMETERS  
PYRANOMETERS  
SPECTROPHOTOMETERS  
THERMISTORS  
RADIOISOTOPES  
USE RADIOACTIVE ISOTOPES  
RADIOPATHOLOGY  
0401 0405 0411  
BT #MEDICAL SCIENCE  
RT ANTIRADIATION DRUGS  
RADIATION MEDICINE  
RADIATION SICKNESS  
RADIOPHOSPHORS  
0603 0605 2406  
BT PHOSPHORS  
RT RADIOACTIVE ISOTOPES  
RADIOPROTECTIVE AGENTS  
USE ANTIRADIATION DRUGS  
RADIOSENSITIVITY  
USE RADIATION TOLERANCE  
RADIOSONDES  
0708 1413 2002 2003 2402  
NT ENDORADIOSONDES  
IONOSONDES  
RAVISONDES  
BT #MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
#RADIO EQUIPMENT  
RADIO TRANSMITTERS

SONDES  
#TRANSMITTERS  
RT ARCAS ROCKET VEHICLES  
BALLOON SOUNDING  
DROPSONDES  
METEOROLOGICAL BALLOONS  
RADIO METEOROLOGY  
RADIO TELEMETRY  
RADIOMETEOROGRAPHS  
ROBIN BALLOONS  
SOUNDING ROCKETS  
RADIOTELEPHONES  
0702 0710 2402  
BT #RADIO EQUIPMENT  
RADIO TRANSMITTERS  
RECEIVERS  
TELEPHONES  
#TRANSMITTERS  
RT ECHO SUPPRESSORS  
RADIO COMMUNICATION  
TELEPHONY  
VOICE COMMUNICATION  
RADIOTHERAPY  
USE RADIATION THERAPY  
RADIUM  
1703 2406  
NT RADIUM ISOTOPES  
RADIUM 226  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#METALS  
RADIUM ISOTOPES  
1703 2406  
NT RADIUM 226  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIUM  
RADIUM 226  
1703 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIUM  
RADIUM ISOTOPES  
RADIUS  
USE RADIUS  
RADOME MATERIALS  
0705 0901 0903 0905  
BT DIELECTRICS  
RT ELECTROMAGNETIC WAVE TRANSMISSION  
MATERIALS  
RADAR TRANSMISSION  
RADIO TRANSMISSION  
RADOMES  
TRANSPARENCE  
RADOMES  
0705 0901 0905  
BT DOMES (STRUCTURAL FORMS)  
HOUSINGS  
#SHELLS (STRUCTURAL FORMS)  
RT INFLATABLE STRUCTURES  
PROTUBERANCES  
RADANT  
RADAR ANTENNAS  
#RADAR EQUIPMENT  
RADOME MATERIALS  
RADON  
0603 1807  
UF THORON  
NT RADON ISOTOPES  
BT #CHEMICAL ELEMENTS  
#GASES  
RARE GASES  
RADON ISOTOPES  
0603 1807 2406  
BT #CHEMICAL ELEMENTS  
#GASES  
ISOTOPES  
NUCLIDES  
RADON  
RARE GASES  
RAE-1  
USE EXPLORER 38 SATELLITE  
RAFTS  
0203 3202  
NT LIFE RAFTS  
RT FLOATS  
LIFEBOATS  
SURVIVAL EQUIPMENT

## RAIL TRANSPORTATION

## RAIL TRANSPORTATION

3404

BT #TRANSPORTATION  
URBAN TRANSPORTATION  
LOCOMOTIVES  
RAILS  
RAPID TRANSIT SYSTEMS  
#SURFACE VEHICLES  
RAILROAD HUMPING TESTS  
1502  
RT #CARGO  
IMPACT ACCELERATION  
MATERIALS HANDLING  
SHOCK TESTS  
TESTS

## RAILS

3202 3404

RT RAIL TRANSPORTATION  
RAPID TRANSIT SYSTEMS  
#SURFACE VEHICLES

## RAIN

2001 2003

BT PRECIPITATION (METEOROLOGY)  
RT CLOUD SEEDING  
FLOOD PREDICTIONS  
HYDROLOGY  
RAIN GAGES  
RAINBOWS  
RAINDROPS  
RAINSTORMS  
SHELVES  
SHOWERS  
THUNDERSTORMS

## RAIN EROSION

USE WATER EROSION

## RAIN GAGES

1406 2002 2003

UP PLUVIOGRAPHS  
BT #MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS

## RAIN

RAIN IMPACT DAMAGE

2001 2003 3201

BT #DAMAGE  
IMPACT DAMAGE  
RT EROSION  
WATER EROSION

## RAINBOWS

1301 2001 2003 2902

BT DIFFRACTION PATTERNS  
#DISTRIBUTION (PROPERTY)  
RADIATION DISTRIBUTION  
RT HALOS  
LIGHT TRANSMISSION  
RAIN

## RAINDROPS

2003

BT DROPS (LIQUIDS)  
#PARTICLES  
RT DROP SIZE  
FALLING SPHERES  
RAIN

## RAINSTORMS

1301 2001 2003

NT THUNDERSTORMS  
BT #STORMS  
STORMS (METEOROLOGY)  
RT FLOOD PREDICTIONS  
PRECIPITATION (METEOROLOGY)  
RAIN  
SHOWERS  
TORNADOES

## RAKES

0101 0104 1202 2304

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT PRESSURE SENSORS  
SLOPES

## RAM

1504

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ANTIRADAR COATINGS  
RAMS (PRESSES)  
RAMS (PUMPS)

## RAM B LAUNCH VEHICLE

3103

BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES

RT SOLID PROPELLANT ROCKET ENGINES  
TI-354 ENGINE

## RAM PROJECT

USE RADIO ATTENUATION MEASUREMENT  
PROJECT

## RAMAN EFFECT

USE RAMAN SPECTRA

## RAMAN LASERS

1601

BT LASERS

#STIMULATED EMISSION DEVICES

## RAMAN SCATTERING

USE RAMAN SPECTRA

## RAMAN SPECTRA

1413 2306 2310 2404

UP RAMAN EFFECT

RAMAN SCATTERING

BT ELECTROMAGNETIC SCATTERING

ELECTROMAGNETIC SPECTRA

MOLECULAR SPECTRA

RADIATION SPECTRA

#SCATTERING

#SPECTRA

WAVE SCATTERING

BT ABSORPTION SPECTRA

EMISSION SPECTRA

LIGHT (VISIBLE RADIATION)

LINE SPECTRA

MOLECULAR ROTATION

VIBRATIONAL SPECTRA

## RAMAN SPECTROSCOPY

1404 1413 2306 2404

BT MOLECULAR SPECTROSCOPY

#SPECTROSCOPY

ASTRONOMICAL SPECTROSCOPY

INFRARED SPECTROSCOPY

LINE SPECTRA

RAYLEIGH SCATTERING

SPECTROSCOPIC ANALYSIS

## RAMIS (SYSTEM)

1410 2102 3009 3110

UP RAPID AUTOMATIC MALFUNCTION

ISOLATION

RT SYSTEMS

## RAMJET ENGINES

2805

UP ATHODYDS

RT LOW VOLUME RAMJET ENGINES

PULSEJET ENGINES

SUPERSONIC COMBUSTION RAMJET

ENGINES

TURBORAMJET ENGINES

BT AIR BREATHING ENGINES

#ENGINES

GAS TURBINE ENGINES

INTERNAL COMBUSTION ENGINES

JET ENGINES

TURBINE ENGINES

RT HYDROGEN FUELS

METEOR 1 ROCKET VEHICLE

NAVAHO MISSILE

SLAM SUPERSONIC LOW ALTITUDE

MISSILE

TURBOJET ENGINES

## RAMJET MISSILES

2805 3101

UP SUPERSONIC COMBUSTION RAMJET

MISSILE

NT NAVAHO MISSILE

SLAM SUPERSONIC LOW ALTITUDE

MISSILE

BT #MISSILES

RT AIR TO AIR MISSILES

ANTIAIRCRAFT MISSILES

SUPERSONIC COMBUSTION RAMJET

ENGINES

SURFACE TO AIR MISSILES

SURFACE TO SURFACE MISSILES

## RAMP FUNCTIONS

1902

BT #FUNCTIONS (MATHEMATICS)

RT DYNAMIC RESPONSE

FREQUENCY RESPONSE

RAMPS

REACTION TIME

SLOPES

STEP FUNCTIONS

## RAMPS

0101 0102 0202

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

## NASA THESAURUS (ALPHABETICAL LISTING)

RT RAMP FUNCTIONS  
RAMPS (STRUCTURES)

## RAMPS (STRUCTURES)

3404

RT BRIDGES (STRUCTURES)

CROSSINGS

HIGHWAYS

#INTAKE SYSTEMS

INTERSECTIONS

PARKING

RAMPS

SLOPES

## RAMS (PRESSES)

1504

BT PRESSES

RT HAMMERS

PLATENS

PLUNGERS

RAM

## RAMS (PUMPS)

1504

BT #PUMPS

RT PLUNGERS

RAM

WATER HAMMER

## RAMSAUER EFFECT

2309 2401 2402

RT ELECTRON SCATTERING

INTERFERENCE

NEGATIVE RESISTANCE DEVICES

RARE GASES

SCATTERING CROSS SECTIONS

## RAND PROJECT

3404

BT #PROGRAMS

PROJECTS

RT OPERATIONS RESEARCH

RANDOM ACCESS MEMORY

0801

NT CORE STORAGE

BT #COMPUTER STORAGE DEVICES

## RANDOM DISTRIBUTIONS

USE STATISTICAL DISTRIBUTIONS

## RANDOM ERRORS

1902 1905

BT ERRORS

RT BCH CODES

DISPERSION

PROBABILITY THEORY

QUALITY CONTROL

SAMPLING

#STOCHASTIC PROCESSES

## RANDOM LOADS

0101 1905 3110

NT GUST LOADS

BT #LOADS (FORCES)

RT DYNAMIC LOADS

IMPACT LOADS

STATIC LOADS

TRANSIENT LOADS

## RANDOM NOISE

1905 2301

UP GAUSSIAN NOISE

RT RANDOM SIGNALS

RT BACKGROUND NOISE

#COMMUNICATION THEORY

ELECTROMAGNETIC NOISE

NOISE

NOISE (SOUND)

NOISE SPECTRA

PROBABILITY THEORY

PSEUDONOISE

SIGNAL TO NOISE RATIOS

#STOCHASTIC PROCESSES

WHITE NOISE

## RANDOM NUMBERS

1902 1905

RT MATHEMATICAL TABLES

NUMBERS

PSEUDORANDOM SEQUENCES

RANDOM SAMPLING

## RANDOM PROCESSES

1905 3407

NT RANDOM WALK

BT #STOCHASTIC PROCESSES

RT #COMMUNICATION THEORY

INFORMATION THEORY

INTERMITTENCY

MARKOV PROCESSES

MONTE CARLO METHOD

RANDOM VARIABLES

#STATISTICAL ANALYSIS

# NASA THESAURUS (ALPHABETICAL LISTING)

RANDOM SAMPLING  
1902 1905  
BT SAMPLING  
BT QUALITY CONTROL  
RANDOM NUMBERS  
RANDOM SIGNALS  
0704 1905 2301  
BT RANDOM NOISE  
BT NOISE SPECTRA  
SIGNAL TO NOISE RATIOS  
SIGNALS  
#STOCHASTIC PROCESSES  
RANDOM VARIABLES  
1902 1905  
BT #FUNCTIONS (MATHEMATICS)  
RANDOM PROCESSES  
STATISTICS  
VARIABLE  
RANDOM VIBRATION  
0710 1905 2309  
BT #VIBRATION  
RT BENDING VIBRATION  
FLUTTER  
FORCED VIBRATION  
LATTICE VIBRATIONS  
LINEAR VIBRATION  
MISSILE VIBRATION  
NOISE (SOUND)  
SELF INDUCED VIBRATION  
STRUCTURAL VIBRATION  
TORSIONAL VIBRATION  
RANDOM WALK  
1902 1905  
BT RANDOM PROCESSES  
#STOCHASTIC PROCESSES  
BT MARKOV CHAINS  
MONTE CARLO METHOD  
RANEY NICKEL  
USE CATALYSTS  
NICKEL  
RANGE  
0201 1902 1904 2311 3006 3009 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DISTANCE  
ORBITAL POSITION ESTIMATION  
#RANGE (EXTREMES)  
#RANGES (FACILITIES)  
#RANGE (EXTREMES)  
1902  
UP EXTREMA  
GUMBEL THEORY  
NT FREQUENCY RANGES  
OCTAVES  
PROPORTIONAL LIMIT  
RADIO RANGE  
ROCHE LIMIT  
BT SUBAUDIBLE FREQUENCIES  
CONFIDENCE LIMITS  
CONSTRAINTS  
DISTANCE  
DOMAINS  
#DYNAMIC CHARACTERISTICS  
ERRORS  
#FUNCTIONS (MATHEMATICS)  
HETEROGENEITY  
HORIZON  
INTEGRAL EQUATIONS  
LIMITS  
MAXIMA  
MEAN  
MINIMA  
#OPTIMIZATION  
QUALITY CONTROL  
RANGE  
#SENSITIVITY  
STANDARD DEVIATION  
STATISTICAL TESTS  
TOLERANCES (MECHANICS)  
TOLERANCES (PHYSIOLOGY)  
TRAVEL  
VARIABILITY  
VARIANCE (STATISTICS)  
RANGE AND RANGE RATE TRACKING  
0705 0709 1109 2102 3110  
BT #RADAR  
#TRACKING (POSITION)  
RT GLOBAL TRACKING NETWORK  
MISSILE TRACKING  
NORTH AMERICAN SEARCH AND RANGING  
RADAR

OPTICAL TRACKING  
RADAR TRACKING  
RADIO TRACKING  
SATELLITE TRACKING  
STADAN (SATELLITE TRACKING NETWORK)  
RANGE CONTROL  
USE TRAJECTORY CONTROL  
RANGE ERRORS  
0705 0709 1904 2402  
(EXCLUDES ERRORS IN DISTANCE  
TRAVELED--LIMITED TO ERRORS IN  
DISTANCE MEASUREMENT)  
BT ERRORS  
RT ACCURACY  
DISTANCE MEASURING EQUIPMENT  
ERROR ANALYSIS  
ERROR SIGNALS  
RANGE FINDERS  
0705 1109 1406  
UP RANGE INDICATORS  
NT LASER RANGE FINDERS  
OPTICAL RANGE FINDERS  
BT DISTANCE MEASURING EQUIPMENT  
#MEASURING INSTRUMENTS  
RT ALTIMETERS  
FIRE CONTROL  
GEODINETERS  
#NAVIGATION AIDS  
POSITION INDICATORS  
#RADAR EQUIPMENT  
RANGEFINDING  
SOUND LOCALIZATION  
SPACE PERCEPTION  
STADIMETERS  
TELLURIMETERS  
RANGE INDICATORS  
USE INDICATING INSTRUMENTS  
RANGE FINDERS  
RANGE MEASUREMENT  
USE RANGEFINDING  
RANGE RESOURCES  
1306 3402  
BT EARTH RESOURCES  
#RESOURCES  
RANGE SAFETY  
1108 3110  
BT SAFETY  
RT IMPACT PREDICTION  
MISSILE RANGES  
TEST RANGES  
TRAJECTORY CONTROL  
RANGEFINDING  
0705 1109 1304  
UP RANGE MEASUREMENT  
RANGING  
NT AIRBORNE RANGE AND ORBIT  
DETERMINATION  
SOUND RANGING  
RT BALLISTIC CAMERAS  
MEASUREMENT  
RADAR MEASUREMENT  
RADAR TRACKING  
RADIO TRACKING  
RANGE FINDERS  
#TRACKING (POSITION)  
RANGEMASTER AIRCRAFT  
USE G-1 AIRCRAFT  
RANGER BLOCK 3 TELEVISION SYSTEM  
3004 3105 3108  
BT #COMMUNICATION EQUIPMENT  
SPACECRAFT TELEVISION  
RT RANGER LUNAR PROBES  
RANGER LUNAR LANDING VEHICLES  
3004 3105 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RT BE-3 ENGINE  
RANGER PROJECT  
RANGER 1 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 2 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT

## RANGER PROJECT

RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 3 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 4 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RT ATLAS AGENA B LAUNCH VEHICLE  
RANGER 5 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 6 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 7 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 8 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 9 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER 10 LUNAR PROBE  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
RANGER LUNAR PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RANGER LUNAR PROBES  
3004 3108  
UP RANGER SATELLITES  
NT RANGER LUNAR LANDING VEHICLES  
RANGER 1 LUNAR PROBE  
RANGER 2 LUNAR PROBE  
RANGER 3 LUNAR PROBE  
RANGER 4 LUNAR PROBE  
RANGER 5 LUNAR PROBE  
RANGER 6 LUNAR PROBE  
RANGER 7 LUNAR PROBE  
RANGER 8 LUNAR PROBE  
RANGER 9 LUNAR PROBE  
RANGER 10 LUNAR PROBE  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
RT ATLAS AGENA B LAUNCH VEHICLE  
RANGER BLOCK 3 TELEVISION SYSTEM  
RANGER PROJECT  
3004 3108 3409  
NT AGENA B RANGER PROGRAM  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT AGENA B ROCKET VEHICLE  
AGENA ROCKET VEHICLES  
ATLAS LAUNCH VEHICLES  
LUNAR PHOTOGRAPHS  
LUNAR PHOTOGRAPHY

# RANGER SATELLITES

LUNAR PROBES  
 RANGER LUNAR LANDING VEHICLES  
 RANGER LUNAR PROBES  
 RANGER SATELLITES  
 USE RANGER LUNAR PROBES  
 #RANGES (FACILITIES)  
 1108  
 NT BALLISTIC RANGES  
 MISSILE RANGES  
 TEST RANGES  
 RT RADIO BEACONS  
 RANGE  
 RANGING  
 USE RANGEFINDING  
 RANK TESTS  
 1902 1905  
 BT #STATISTICAL ANALYSIS  
 STATISTICAL TESTS  
 RANKING CYCLE  
 3110 3304  
 BT #CYCLES  
 THERMODYNAMIC CYCLES  
 RT ASTEC SOLAR TURBOELECTRIC GENERATOR  
 BRAYTON CYCLE  
 CARNOT CYCLE  
 OTTO CYCLE  
 SOLAR GENERATORS  
 THERMODYNAMICS  
 RANKINE-HUGONOT RELATION  
 1202 3304  
 RT AEROTHERMODYNAMICS  
 DENSITY  
 PRESSURE GRADIENTS  
 SHOCK WAVE PROPAGATION  
 RANKINE TEMPERATURE SCALE  
 USE TEMPERATURE SCALES  
 RANKING  
 1905  
 RT #ARRAYS  
 COMPARISON  
 EVALUATION  
 RATINGS  
 #SELECTION  
 SEQUENCING  
 VALUE  
 RAOULT LAW  
 1203 3304  
 RT #COMPOSITION (PROPERTY)  
 HENRY LAW  
 PARTIAL PRESSURE  
 SOLUTIONS  
 VAPOR PRESSURE  
 RAPCON (CONTROL)  
 USE RADAR APPROACH CONTROL  
 RAPID AUTOMATIC HALF-POWER ISOLATION  
 USE RAMIS (SYSTEM)  
 RAPID EYE MOVEMENT STATE  
 0408 0503  
 UP DESYNCHRONIZED SLEEP  
 REMS  
 RT DREAMS  
 EYE MOVEMENTS  
 SLEEP  
 RAPID TRANSIT SYSTEMS  
 0204  
 BT #TRANSPORTATION  
 RT AIR TRANSPORTATION  
 #CARGO  
 GROUND EFFECT MACHINES  
 HIGHWAYS  
 LOGISTICS  
 PASSENGERS  
 RAIL TRANSPORTATION  
 RAILS  
 ROADS  
 SYSTEMS  
 TRANSPORT VEHICLES  
 URBAN TRANSPORTATION  
 RARE EARTH ALLOYS  
 0603 1701  
 NT ERBIUM ALLOYS  
 NEODYMIUM ALLOYS  
 BT #ALLOYS  
 #RARE EARTH COMPOUNDS  
 0603  
 NT BASTNASITE  
 CERIUM COMPOUNDS  
 CERIUM OXIDES  
 ERBIUM COMPOUNDS  
 EUROPIUM COMPOUNDS  
 LANTHANUM TELLURIDES  
 LUTETIUM COMPOUNDS

NEODYMIUM COMPOUNDS  
 SAMARIUM COMPOUNDS  
 SCANDIUM COMPOUNDS  
 SCANDIUM OXIDES  
 THULIUM COMPOUNDS  
 YTTERBIUM COMPOUNDS  
 CHEMICAL COMPOUNDS  
 GROUP 3B COMPOUNDS  
 METAL COMPOUNDS  
 RARE EARTH ELEMENTS  
 0603 1703 1704  
 UP LANTHANIDE SERIES METALS  
 NT CERIUM  
 CERIUM ISOTOPES  
 CERIUM 137  
 CERIUM 144  
 DYSPROSIUM  
 DYSPROSIUM ISOTOPES  
 ERBIUM  
 ERBIUM ISOTOPES  
 EUROPIUM  
 EUROPIUM ISOTOPES  
 GADOLINIUM  
 HOLMIUM  
 HOLMIUM ISOTOPES  
 LANTHANUM  
 LANTHANUM ISOTOPES  
 LUTETIUM  
 LUTETIUM ISOTOPES  
 NEODYMIUM  
 NEODYMIUM ISOTOPES  
 PRASEODYMIUM  
 PRASEODYMIUM ISOTOPES  
 PROMETHIUM  
 PROMETHIUM ISOTOPES  
 SAMARIUM  
 SCANDIUM  
 SCANDIUM ISOTOPES  
 TERBIUM  
 TERBIUM ISOTOPES  
 THULIUM  
 THULIUM ISOTOPES  
 YTTERBIUM  
 YTTERBIUM ISOTOPES  
 YTTRIUM  
 YTTRIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RT TRANSITION METALS  
 RARE GAS COMPOUNDS  
 0603 1805  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT HELIUM COMPOUNDS  
 XENON COMPOUNDS  
 RARE GASES  
 0603 1807  
 UP INERT GASES  
 NOBLE GASES  
 NT ARGON  
 ARGON ISOTOPES  
 HELIUM  
 HELIUM ATOMS  
 HELIUM FILM  
 HELIUM ISOTOPES  
 LIQUID HELIUM  
 LIQUID NEON  
 NEON  
 NEON ISOTOPES  
 RADON  
 RADON ISOTOPES  
 XENON  
 XENON ISOTOPES  
 XENON 129  
 XENON 133  
 XENON 135  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 RT NONATOMIC GASES  
 NONPOLAR GASES  
 RAMSAUER EFFECT  
 RAREFACTION  
 0602 1203 1301 2404  
 BT ANTINODES  
 COMPRESSING  
 #ELASTIC WAVES  
 #EXPANSION  
 VACUUM  
 RAREFACTION WAVES  
 USE #ELASTIC WAVES

# NASA THESAURUS (ALPHABETICAL LISTING)

RAREFIED GAS DYNAMICS  
 1203 2404 3304  
 BT FLUID DYNAMICS  
 #FLUID MECHANICS  
 GAS DYNAMICS  
 RT ATOMIC BEAMS  
 CHAPMAN-ENSKOG THEORY  
 CONTINUUM FLOW  
 FREE MOLECULAR FLOW  
 KNUDSEN FLOW  
 LOW DENSITY FLOW  
 LOW DENSITY WIND TUNNELS  
 MOLECULAR BEAMS  
 MOLECULAR FLOW  
 #PLASMAS (PHYSICS)  
 RAREFIED GASES  
 SLIP FLOW  
 TRANSITION FLOW  
 RAREFIED GASES  
 0603 1203 2404 3304  
 UP LOW DENSITY GASES  
 RT COSMIC GASES  
 INTERPLANETARY GAS  
 INTERSTELLAR GAS  
 BT #GASES  
 RT ELECTRON GAS  
 FREE MOLECULAR FLOW  
 GAS DENSITY  
 GAS TEMPERATURE  
 HIGH TEMPERATURE GASES  
 LOW DENSITY FLOW  
 LOW DENSITY RESEARCH  
 MOLECULAR GASES  
 RAREFIED GAS DYNAMICS  
 RAREFIED PLASMAS  
 RAREFIED PLASMAS  
 2502  
 BT #PLASMAS (PHYSICS)  
 RT COLD PLASMAS  
 COLLISIONLESS PLASMAS  
 ELECTRON PLASMA  
 NONUNIFORM PLASMAS  
 #PARTICLES  
 RAREFIED GASES  
 RASERS  
 USE MASERS  
 RATE METERS  
 USE #MEASURING INSTRUMENTS  
 RATE OF CLIMB INDICATORS  
 1402  
 BT #AIRCRAFT INSTRUMENTS  
 RT ALTIMETERS  
 #FLIGHT INSTRUMENTS  
 INDICATORS  
 #RATES (PER TIME)  
 1202 2311 3009 3402 3406  
 NT ACCELERATION (PHYSICS)  
 ACOUSTIC VELOCITY  
 AIRSPEED  
 ANGULAR ACCELERATION  
 ANGULAR VELOCITY  
 ARRHYTHMIA  
 BRADYCARDIA  
 BURNING RATE  
 COLLISION PARAMETERS  
 COLLISION RATES  
 CRITICAL VELOCITY  
 CURRENT DENSITY  
 DECAY RATES  
 DECELERATION  
 DRIFT RATE  
 DYSPNEA  
 ELECTRON DECAY RATE  
 ELECTRON FLUX DENSITY  
 ESCAPE VELOCITY  
 EVAPORATION RATE  
 EXHAUST VELOCITY  
 FLOW VELOCITY  
 FLUX (RATE)  
 FLUX DENSITY  
 GROUND SPEED  
 GROUP VELOCITY  
 HEART RATE  
 HEAT FLUX  
 HIGH ACCELERATION  
 HIGH SPEED  
 HYPERSONIC SPEED  
 HYPOVENTILATION  
 ILLUMINANCE  
 IMPACT ACCELERATION  
 ION PRODUCTION RATES  
 IRRADIANCE

# NASA THESAURUS (ALPHABETICAL LISTING)

BDX

LANDING SPEED  
LIGHT SPEED  
LOADING RATE  
LOW SPEED  
LUMENS  
LUMINANCE  
LUMINOUS INTENSITY  
MAGNETIC FLUX  
MASS FLOW RATE  
NEUTRON FLUX DENSITY  
ORBITAL VELOCITY  
PARTICLE ACCELERATION  
PARTICLE FLUX DENSITY  
PHASE VELOCITY  
PHOTON DENSITY  
PHYSIOLOGICAL ACCELERATION  
PLASMA ACCELERATION  
PROPAGATION VELOCITY  
PROTON FLUX DENSITY  
PULSE RATE  
RADIAL VELOCITY  
RADIANCE  
RADIANT FLUX DENSITY  
RECOMBINATION COEFFICIENT  
RELATIVISTIC VELOCITY  
RESPIRATORY RATE  
ROTOR SPEED  
SIGNAL PADING RATE  
SOLAR CONSTANT  
SOLAR FLUX  
SOLAR FLUX DENSITY  
SOLAR VELOCITY  
SOUND INTENSITY  
SPIN REDUCTION  
STRAIN RATE  
SUBSONIC SPEED  
SUPERSONIC SPEEDS  
TACHYCARDIA  
TACHYPNEA  
TERMINAL VELOCITY  
TIP SPEED  
TRANSONIC SPEED  
WIND VELOCITY  
ZERO SOUND  
RT ACCESS TIME  
MTBF  
TIME FUNCTIONS  
TIME MEASUREMENT  
VOLUME  
RATINGS  
1905 3401 3402 3404  
RT ASSESSMENTS  
CONSISTENCY  
EVALUATION  
NORMALIZING (STATISTICS)  
PERFORMANCE  
POSITION (TITLE)  
RANKING  
RATIOETTERS  
1406  
BT #MEASURING INSTRUMENTS  
RATIONAL FUNCTIONS  
1902  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
MEROMORPHIC FUNCTIONS  
RATINGS  
0505  
NT SPACE RATINGS  
RT FOOD  
#RATIOS  
1902  
UP MODULI  
PERCENTAGE  
NT ASPECT RATIO  
DIMENSIONLESS NUMBERS  
FINENESS RATIO  
PROUDE NUMBER  
FUEL-AIR RATIO  
GRASHOP NUMBER  
HARTMANN NUMBER  
HIGH ASPECT RATIO  
INDEXES (RATIOS)  
LAVAL NUMBER  
LEWIS NUMBERS  
LIFT DRAG RATIO  
LOW ASPECT RATIO  
MACH NUMBER  
MASS RATIOS  
MILLS RATIO  
MODULAR RATIOS  
NUSSELT NUMBER  
OPTICAL REFLECTION  
PAYLOAD MASS RATIO  
PECLET NUMBER  
PERVEANCE  
POISSON RATIO  
PRANDTL NUMBER  
PROPELLANT MASS RATIO  
RAYLEIGH NUMBER  
REYNOLDS NUMBER  
RICHARDSON NUMBER  
SCALE (RATIO)  
SCHNIDT NUMBER  
SIGNAL TO NOISE RATIOS  
SIMILARITY NUMBERS  
STANDING WAVE RATIOS  
STANTON NUMBER  
STRESS RATIO  
STROUHAL NUMBER  
THICKNESS RATIO  
THRUST-WEIGHT RATIO  
VOID RATIO  
RT #EFFICIENCY  
FRACTIONS  
PROPORTION  
PSYCHOLOGICAL TESTS  
REFRACTIVITY  
RATS  
0402  
BT #ANIMALS  
MAMMALS  
RODENTS  
VERTEBRATES  
RT MICE  
POCKET MICE  
RATSCAT PROGRAM  
USE RADAR TARGET SCATTER SITE PROGRAM  
RAVEN HELICOPTER  
USE OH-23 HELICOPTER  
RAVINSOONES  
0705 1408 2001 2003  
BT #MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
#RADIO EQUIPMENT  
RADIO TRANSMITTERS  
RADIOSOONES  
SONDES  
#TRANSMITTERS  
RT DROPSOONES  
METEOROLOGICAL BALLOONS  
RADAR TRACKING  
RADIO TRACKING  
WIND MEASUREMENT  
RAY TRACING  
0710 2309 2402 2901 2902 2903  
RT DIFFRACTION  
#OPTICAL MEASUREMENT  
REFLECTANCE  
#TRACKING (POSITION)  
TRANSMITTANCE  
RAYLEIGH DISTRIBUTION  
1902 1905 2310  
BT #FUNCTIONS (MATHEMATICS)  
PROBABILITY DENSITY FUNCTIONS  
#STATISTICAL ANALYSIS  
STATISTICAL DISTRIBUTIONS  
RT ERROR ANALYSIS  
OPERATIONS RESEARCH  
RADIAL DISTRIBUTION  
RAYLEIGH EQUATIONS  
1902 1905 2306 2310 2402  
RT EQUATIONS  
HEAT TRANSFER  
THERMODYNAMICS  
RAYLEIGH NUMBER  
0710 1202 3304  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
RT BERNARD CELLS  
BUOYANCY  
RAYLEIGH-BITZ METHOD  
1902  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
RT METHODOLOGY  
VARIATIONAL PRINCIPLES  
RAYLEIGH SCATTERING  
2306 2309 2402  
BT ELECTROMAGNETIC SCATTERING  
MIE SCATTERING  
#SCATTERING  
WAVE SCATTERING  
RT AIRGLOW  
GRAY GAS  
LIGHT SCATTERING  
RAMAN SPECTROSCOPY  
SKY  
RAYLEIGH WAVES  
0710 1202  
BT #ELASTIC WAVES  
SEISMIC WAVES  
RT BAROTROPIC FLOW  
#FLUID FLOW  
S WAVES  
TWO DIMENSIONAL FLOW  
RAYON  
1808 1810 1811  
BT #FIBERS  
SYNTHETIC FIBERS  
TEXTILES  
RAYS  
0701 1601 1902 2102 2306 2403 2502  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ATMOSPHERIC RADIATION  
BACKGROUND NOISE  
#BEAMS (RADIATION)  
#COHERENT RADIATION  
CONTINUOUS RADIATION  
CORPUSCULAR RADIATION  
#ELECTROMAGNETIC RADIATION  
#EXTRATERRESTRIAL RADIATION  
GAMMA RAYS  
LUNAR RAYS  
#POLARIZED RADIATION  
PULSED RADIATION  
RAZOR BLADES  
1504  
BT BLADES (CUTTERS)  
#CUTTERS  
RB-47 AIRCRAFT  
USE B-47 AIRCRAFT  
RB-50 AIRCRAFT  
0207 3401  
UP SUPER FORTRESS AIRCRAFT  
BT MONOPLANES  
OBSERVATION AIRCRAFT  
RT BOMBER AIRCRAFT  
#WEATHER RECONNAISSANCE AIRCRAFT  
RB-57 AIRCRAFT  
USE B-57 AIRCRAFT  
RB-66 AIRCRAFT  
USE B-66 AIRCRAFT  
RBE  
USE RELATIVE BIOLOGICAL EFFECTIVENESS  
(RBE)  
RC CIRCUITS  
0902 1001 1002  
UP RC NETWORKS  
BT #CIRCUITS  
RT CAPACITANCE  
COUPLING CIRCUITS  
DISCRIMINATORS  
#ELECTRIC FILTERS  
ELECTRICAL RESISTANCE  
NETWORK ANALYSIS  
NETWORK SYNTHESIS  
RLC CIRCUITS  
TIME CONSTANT  
RC NETWORKS  
USE RC CIRCUITS  
RCA COMPUTERS  
0802 0801 0802 0905  
BT RCA-110 COMPUTERS  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
RT #DATA PROCESSING  
RCA-110 COMPUTERS  
1801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
RCA COMPUTERS  
RCA SPECTRA 70 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
BDX  
1808 3302  
UP CYCLOTRIMETHYLENE TRINITRAMINE  
TRINITROTETRAZOCYCLOHEXANE



# REACTANCE

BT AZO COMPOUNDS  
EXPLOSIVES  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
#PROPELLANTS  
RT PYROTECHNICS  
SOLID PROPELLANTS  
SOLID ROCKET PROPELLANTS

## REACTANCE

0902 1001 1002  
BT ELECTRICAL IMPEDANCE  
#ELECTRICAL PROPERTIES  
#IMPEDANCE  
RT CAPACITANCE  
ELECTRICAL RESISTANCE  
FOSTER THEORY  
INDUCTANCE  
SMITH CHART

## REACTION

0408 0506 0603 2405 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

BT #CHEMICAL REACTIONS  
HUMAN REACTIONS  
IRRITATION  
#NUCLEAR REACTIONS  
#THRUST

## REACTION CONTROL

0603 2202 2807 2808  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CHEMICAL REACTION CONTROL  
COMBUSTION CONTROL  
DIRECTIONAL CONTROL  
MARQUARDT R4D ENGINE  
NUCLEAR REACTOR CONTROL  
REACTOR SAFETY  
THRUST CONTROL

## REACTION JET ATTITUDE CONTROL

USE #ATTITUDE CONTROL  
JET THRUST

## REACTION JET BACKPACKS

USE SELF MANEUVERING UNITS

## REACTION JETS

USE JET FLOW  
JET THRUST

## REACTION KINETICS

0603 2405  
UF CHEMICAL KINETICS  
BT KINETICS  
RT CATALYSIS  
CHEMICAL EQUILIBRIUM  
#CHEMICAL REACTIONS  
HALF LIFE  
HEAT OF DISSOCIATION  
IRREVERSIBLE PROCESSES  
#NUCLEAR REACTIONS

## REACTION TIME

0408 0502 0603  
UF LATENCY  
REVERSE TIME  
NT CHRONAXY  
BT #TIME  
RT #ADAPTATION  
#DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
HUMAN REACTIONS  
PERCEPTUAL TIME CONSTANT  
#PHYSIOLOGICAL EFFECTS  
PONTYAGIN PRINCIPLE  
#PSYCHOLOGICAL EFFECTS  
PSYCHOMOTOR PERFORMANCE  
RAMP FUNCTIONS  
#REFLEXES  
REFRACTORY PERIOD  
#SENSITIVITY  
#SENSORIMOTOR PERFORMANCE  
STEP FUNCTIONS  
TIME CONSTANT  
TIME LAG

## REACTION WHEELS

1504 2308  
UF INERTIA WHEELS  
BT #WHEELS  
RT #ATTITUDE CONTROL  
FLYWHEELS

## REACTIVITY

2202 2204  
RT #CHEMICAL REACTIONS  
INHOUR EQUATION

# #NUCLEAR REACTIONS

## REACTOR CHEMISTRY

USE RADIOCHEMISTRY

## REACTOR CORES

2203 2204 2405 2406  
BT CORES  
RT ANNULAR CORE PULSE REACTORS  
CONTROL RODS  
NUCLEAR FUEL ELEMENTS  
NUCLEAR FUELS  
#NUCLEAR REACTORS  
OPERATORS  
REFLECTOMETERS  
#REFLECTORS  
VOID RATIO

## REACTOR DESIGN

2202 2204 2405  
RT ANNULAR CORE PULSE REACTORS  
CHEMICAL REACTORS  
COMPUTERIZED DESIGN  
DESIGN  
ENGINE DESIGN  
ENGINEERING TEST REACTORS  
HANFORD REACTORS  
HIGH TEMPERATURE NUCLEAR REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
ORGANIC COOLED REACTORS  
PEBBLE BED REACTORS  
PRODUCT DEVELOPMENT  
REACTOR MATERIALS  
REACTOR PHYSICS  
REACTOR TECHNOLOGY

## REACTOR FUELS

USE NUCLEAR FUELS  
REACTOR IN FLIGHT TEST PROGRAM  
USE RIFT (REACTOR IN FLIGHT TEST)

## REACTOR MATERIALS

2203 2204 2405  
UF NUCLEAR REACTOR MATERIALS  
RT ANNULAR CORE PULSE REACTORS  
CHEMICAL REACTORS  
CONSTRUCTION MATERIALS  
COOLANTS  
MATERIALS  
MODERATORS  
NUCLEAR FUEL ELEMENTS  
NUCLEAR FUELS  
#NUCLEAR REACTORS  
PRESSURE VESSELS  
RADIATION SHIELDING  
REACTOR DESIGN  
REACTOR SAFETY

## REACTOR PHYSICS

2202 2203 2204 2405  
NT NUCLEAR FUEL BURNUP  
RT ANNULAR CORE PULSE REACTORS  
HANFORD REACTORS  
INHOUR EQUATION  
#NUCLEAR REACTORS  
REACTOR DESIGN  
REACTOR TECHNOLOGY

## REACTOR SAFETY

2202 2203 2204 3404  
BT SAFETY  
RT ANNULAR CORE PULSE REACTORS  
CHEMICAL REACTORS  
CONTROL RODS  
#EXPLOSIONS

INDUSTRIAL SAFETY  
NUCLEAR REACTOR CONTROL  
#NUCLEAR REACTORS  
RADIATION HAZARDS  
REACTION CONTROL  
REACTOR MATERIALS  
RELIEF VALVES  
TRANSIENT REACTOR TEST FACILITY

## REACTOR STARTUP TESTS

2202 2203 2204 2205  
BT FUEL TESTS  
RT INITIATION  
NUCLEAR FUELS  
#NUCLEAR REACTORS  
REACTOR TECHNOLOGY  
STARTING  
TESTS

## REACTOR TECHNOLOGY

2202 2203 2204 3404  
NT NUCLEAR FUEL BURNUP  
RT ANNULAR CORE PULSE REACTORS  
ENGINEERING  
ENGINEERING TEST REACTORS

# NASA THESAURUS (ALPHABETICAL LISTING)

HANFORD REACTORS  
HIGH TEMPERATURE NUCLEAR REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
ORGANIC COOLED REACTORS  
PEBBLE BED REACTORS  
REACTOR DESIGN  
REACTOR PHYSICS  
REACTOR STARTUP TESTS

## REACTORS

0504 0904 0905 2203 2204  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ANNULAR CORE PULSE REACTORS  
CHEMICAL REACTORS  
ELECTRIC REACTORS  
FAST TEST REACTORS  
HIGH TEMPERATURE NUCLEAR REACTORS  
#NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
POWER REACTORS  
SWAPTRAN REACTOR  
SWIMMING POOL REACTORS  
THERMAL REACTORS  
WATER COOLED REACTORS

## READERS

0803  
UF READING MACHINES  
RT CHARACTER RECOGNITION  
CONICAL SCANNING  
DETECTORS  
MAGNETIC TAPES  
MICROFILMS  
OPTICAL DATA PROCESSING  
OPTICAL SCANNERS  
PATTERN RECOGNITION  
PUNCHED CARDS  
PUNCHED TAPES  
READING

## READING

0803  
RT LIP READING  
RT CHARACTER RECOGNITION  
CONICAL SCANNING  
DATA TRANSMISSION  
#DISPLAY DEVICES  
INPUT  
INTERPRETATION  
LEGIBILITY  
#PERCEPTION  
PRINTING  
READERS  
#SCANNERS  
#SCANNING  
SYMBOLS  
VISIBILITY

## READING MACHINES

USE READERS  
READJUSTMENT  
USE ADJUSTING  
READOUT  
0802 0803 3405  
RT #DISPLAY DEVICES  
MULTIPLE OUTPUT PROGRAMS  
OUTPUT  
PRINTERS (DATA PROCESSING)  
PRINTOUTS  
REMOTE CONSOLES

## REAL GASES

0603 1203 2405  
BT #GASES  
RT EQUATIONS OF STATE  
GAS DENSITY  
IDEAL GAS  
#KINETIC THEORY  
MOLECULAR GASES  
MONATOMIC GASES

## REAL NUMBERS

1902  
NT INTEGERS  
RT COMPLEX NUMBERS  
NUMBERS

## REAL TIME OPERATION

0707 0708 0802 3107  
RT #AUTOMATIC CONTROL  
COMPUTER PROGRAMMING  
COMPUTERS  
#DISPLAY DEVICES  
INTEGRATED MISSION CONTROL CENTER  
REAL VARIABLES  
1902 1903

# NASA THESAURUS (ALPHABETICAL LISTING)

**BT** ABEL FUNCTION  
 ASYMPTOTES  
 ASYMPTOTIC SERIES  
 BESSEL FUNCTIONS  
 BETHE-SALPETER EQUATION  
 BIHARMONIC EQUATIONS  
 BINARY INTEGRATION  
 BLASIUS EQUATION  
 BOREL SETS  
 BURGER EQUATION  
 CALCULUS OF VARIATIONS  
 CAMPBELL-HAUSDORFF SERIES  
 CAUCHY-RIEMANN EQUATIONS  
 CHANDRASEKHAR EQUATION  
 COLLINEARITY  
 COMPOSITE FUNCTIONS  
 COPLANARITY  
 COSINE SERIES  
 CUBIC EQUATIONS  
 CURL (VECTORS)  
 DELTA FUNCTION  
 DIFFERENTIAL EQUATIONS  
 DUFGING DIFFERENTIAL EQUATION  
 EINSTEIN EQUATIONS  
 ELLIPTIC DIFFERENTIAL EQUATIONS  
 EULER-CAUCHY EQUATIONS  
 EXISTENCE THEOREMS  
 EXTREMUM VALUES  
 FALKNER-SKAN EQUATION  
 FOKKER-PLANCK EQUATION  
 FOURIER-BESSEL TRANSFORMATION  
 FOURIER-BESSEL TRANSFORMATIONS  
 FOURIER SERIES  
 FUNCTIONAL INTEGRATION  
 GAUSS EQUATION  
 GREEN FUNCTION  
 HANKEL FUNCTIONS  
 HELMHOLTZ VORTICITY EQUATION  
 HYPERBOLIC FUNCTIONS  
 HYPERPLANES  
 INTEGRAL CALCULUS  
 JACOBI INTEGRAL  
 JACOBI MATRIX METHOD  
 KERNEL FUNCTIONS  
 LANE WAVE EQUATIONS  
 LEBESGUE THEOREM  
 LIAPUNOV FUNCTIONS  
 LIMITS (MATHEMATICS)  
 LINEAR EQUATIONS  
 LIOUVILLE EQUATIONS  
 LIPSCHITZ CONDITION  
 MACLAURIN SERIES  
 MAXIMA  
 MEASURE AND INTEGRATION  
 MINIMA  
 MONGE-AMPERE EQUATION  
 NEUMANN PROBLEM  
 NONLINEAR EQUATIONS  
 NUMERICAL INTEGRATION  
 PADE APPROXIMATION  
 PARABOLIC DIFFERENTIAL EQUATIONS  
 PARTIAL DIFFERENTIAL EQUATIONS  
 PERIODIC FUNCTIONS  
 POISSON EQUATION  
 POWER SERIES  
 PROGRESSIONS  
 PRONY SERIES  
 QUADRATIC EQUATIONS  
 QUARTIC EQUATIONS  
 RUNGE-KUTTA METHOD  
 SERIES (MATHEMATICS)  
 SINE SERIES  
 STIELTJES INTEGRAL  
 STURM-LIOUVILLE THEORY  
 TANGENTS  
 TAYLOR SERIES  
 TRIGONOMETRIC FUNCTIONS  
 VECTOR ANALYSIS  
 VLASOV EQUATIONS  
 VORTICITY  
 WEIERSTRASS FUNCTIONS  
 WEIGHTING FUNCTIONS  
 WHITTAKER FUNCTIONS  
**BT** \*ANALYSIS (MATHEMATICS)  
**RT** APERIODIC FUNCTIONS  
 CALCULUS  
 COMPLEX VARIABLES  
 CONTINUOUS  
 DEPENDENT VARIABLES  
 DIFFERENTIAL CALCULUS  
 FOURIER ANALYSIS  
 HERMITIAN POLYNOMIAL

HYPERSPHERES  
 INFINITY  
 INFLECTION POINTS  
 MAXIMUM PRINCIPLE  
 MONOTONE FUNCTIONS  
 SCHMIDT METHOD  
 STABILITY DERIVATIVES  
 UNIQUENESS THEOREM  
**REATTACHED FLOW**  
 0101 1201 1202 1203 3105  
**BT** BOUNDARY LAYER FLOW  
 \*FLUID FLOW  
 VISCOUS FLOW  
**RT** ATTACHMENT  
 BOUNDARY LAYER SEPARATION  
 COANDA EFFECT  
 CROCCO-LEE THEORY  
 FLOW CHARACTERISTICS  
 FLOW DISTRIBUTION  
 SEPARATED FLOW  
**REATTACHMENT**  
 USE ATTACHMENT  
**REBREATHING**  
 0401 0505 0507  
**RT** AIR PURIFICATION  
 CARBON DIOXIDE CONCENTRATION  
 CARBON DIOXIDE REMOVAL  
 EXPIRED AIR  
 LIFE SUPPORT SYSTEMS  
 SPACECRAFT CABIN ATMOSPHERES  
**RECEIVERS**  
 0701 0703 1409 1413  
**UP** MULTICHANNEL RECEIVERS  
 RECEIVING SYSTEMS  
**NT** LINEAR RECEIVERS  
 LOGARITHMIC RECEIVERS  
 RADIOTELEPHONES  
 SUPERHETERODYNE RECEIVERS  
 TELEVISION RECEIVERS  
**RT** \*AMPLIFIERS  
 DETECTORS  
 \*DISPLAY DEVICES  
 DUPLEXERS  
 \*ELECTRIC FILTERS  
 INSTRUMENT RECEIVERS  
 RADAR RECEIVERS  
 RADIO RECEIVERS  
 RECEIVING  
 REPEATERS  
 \*TANKS (CONTAINERS)  
 TELEPRINTERS  
 TELETYPEWRITERS  
 \*TRANSMITTERS  
**RECEIVING**  
 0705 0708 1409  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
**UP** RECEPTION  
**RT** ACQUISITION  
 COLLECTION  
 DELIVERY  
 PROCUREMENT  
 RADAR RECEPTION  
 RADIO RECEPTION  
 RECEIVERS  
 \*RECOGNITION  
 SIGNAL RECEPTION  
 TELEVISION RECEPTION  
**RECEIVING SYSTEMS**  
 USE RECEIVERS  
**RECEPTACLES (CONTAINERS)**  
 USE CONTAINERS  
**RECEPTION**  
 USE RECEIVING  
**RECEPTORS (PHYSIOLOGY)**  
 0401 0405 0408  
**NT** PROPRIOCEPTORS  
**RT** SENSE ORGANS  
**RECESSES**  
 0404 1308 1704 3406  
**RT** CAVITIES  
 CREVASSES  
 HOLLOW  
**RECESSION**  
 3402  
**RT** DEPRESSION  
 ECONOMICS  
**RECIPROCAL THEOREMS**  
 1413 1902 2301 2402  
**BT** \*THEOREMS  
**RT** ANGLES (GEOMETRY)

# \*RECOMBINATION REACTIONS

\*GEOMETRY  
 LINES (GEOMETRY)  
 POINTS (MATHEMATICS)  
 PROJECTIVE GEOMETRY  
 RECIPROCATING ENGINES  
 USE PISTON ENGINES  
 RECIPROCATION  
 1504 3404 3406 3407  
**RT** \*CYCLES  
 MECHANICAL OSCILLATORS  
 PISTON ENGINES  
 PISTONS  
**RECIRCULATION**  
 USE \*CIRCULATION  
 RECIRCULATIVE FLUID FLOW  
 0303 1202 1204 2805  
**BT** \*FLUID FLOW  
**RT** BOUNDARY LAYER FLOW  
 BOUNDARY LAYER SEPARATION  
 REVERSED FLOW  
 TURBULENT FLOW  
 TURBULENT MIXING  
 VORTICES  
**\*RECLAMATION**  
 0505  
**NT** MATERIALS RECOVERY  
 WATER RECLAMATION  
**RT** RECOVERY  
 REGENERATION (ENGINEERING)  
**\*RECOGNITION**  
 0408 0410 3407  
**NT** CHARACTER RECOGNITION  
 GRAPHOLOGY  
 PATTERN RECOGNITION  
 SPEECH RECOGNITION  
 TARGET RECOGNITION  
 TIMBER IDENTIFICATION  
**RT** ACQUISITION  
 CONSCIOUSNESS  
 IDENTIFYING  
 INTERPRETATION  
 MEMORY  
 RECEIVING  
**RECOIL ATOMS**  
 2401 2405  
**BT** ATOMS  
**RT** RECOIL IONS  
 RECOILINGS  
**RECOIL IONS**  
 1804 2401 2402  
**BT** \*IONS  
**RT** ATOMIC COLLISIONS  
 CHARGE EXCHANGE  
 ELECTRON SCATTERING  
 ION IMPACT  
 ION PRODUCTION RATES  
 ION SCATTERING  
 IONIC COLLISIONS  
 RECOIL ATOMS  
 RECOIL PROTONS  
 RECOILINGS  
**RECOIL PROTONS**  
 2401 2403  
**BT** CHARGED PARTICLES  
 ELEMENTARY PARTICLES  
 FERMIONS  
 \*PARTICLES  
 PROTONS  
**RT** RECOIL IONS  
 RECOILINGS  
**RECOILINGS**  
 2401 2405  
**RT** COLLISIONS  
 PARTICLE MOTION  
 RECOIL ATOMS  
 RECOIL IONS  
 RECOIL PROTONS  
**RECOMBINATION COEFFICIENT**  
 0603 1203 2404  
**BT** \*COEFFICIENTS  
 \*RATES (PER TIME)  
**RT** FREE ELECTRONS  
 ION RECOMBINATION  
 IONIZED GASES  
**\*RECOMBINATION REACTIONS**  
 0603 0604 2401 2404 3407  
**NT** ATOMIC RECOMBINATION  
 ELECTRON-ION RECOMBINATION  
 ELECTRON RECOMBINATION  
 HYDROGEN RECOMBINATIONS  
 ION RECOMBINATION  
 OXYGEN RECOMBINATION

## RECOMMENDATIONS

RT RADIATIVE RECOMBINATION  
 ATOMIC COLLISIONS  
 CAPTURE EFFECT  
 FERTILIZATION  
 SOHL EFFECT  
 RECOMMENDATIONS  
 0703 0802 1905  
 NT SUGGESTION  
 RT DECISION THEORY  
 RECOMPRESSION  
 USE COMPRESSING  
 RECONNAISSANCE  
 1401 1407 3401  
 NT AERIAL RECONNAISSANCE  
 PHOTO RECONNAISSANCE  
 SPECTRAL RECONNAISSANCE  
 RT EARTH RESOURCES  
 INTELLIGENCE  
 OBSERVATION  
 PATROLS  
 PHOTO GEOLOGY  
 RECONNAISSANCE AIRCRAFT  
 SEARCHING  
 SPACE SURVEILLANCE (SPACEBORNE)  
 SURVEILLANCE  
 SURVEYS  
 TERRAIN ANALYSIS  
 RECONNAISSANCE AIRCRAFT  
 0207 1401 1402 3401  
 UF RECONNAISSANCE DRONE AIRCRAFT  
 NT BRUGUET 1150 AIRCRAFT  
 CESSNA L-19 AIRCRAFT  
 CL-28 AIRCRAFT  
 CL-84 AIRCRAFT  
 EARTH RESOURCES SURVEY AIRCRAFT  
 G-91 AIRCRAFT  
 MIRAGE 3 AIRCRAFT  
 P-1127 AIRCRAFT  
 P-1154 AIRCRAFT  
 SUNDERLAND 5 FLYING BOAT  
 TSR-2 AIRCRAFT  
 U-2 AIRCRAFT  
 WEATHER RECONNAISSANCE AIRCRAFT  
 RT AERIAL RECONNAISSANCE  
 ANTISUBMARINE WARFARE AIRCRAFT  
 FLYING PLATFORMS  
 HS-801 AIRCRAFT  
 \*JET AIRCRAFT  
 LIGHT AIRCRAFT  
 MILITARY AIRCRAFT  
 MILITARY HELICOPTERS  
 OBSERVATION AIRCRAFT  
 \*PILOTLESS AIRCRAFT  
 RECONNAISSANCE  
 SUBMERSIBLE AIRCRAFT  
 \*SUPERSONIC AIRCRAFT  
 UTILITY AIRCRAFT  
 \*V/STOL AIRCRAFT  
 VALIANT AIRCRAFT  
 VICTOR MK-1 AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT  
 RECONNAISSANCE DRONE AIRCRAFT  
 USE DRONE AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 RECONNAISSANCE SPACECRAFT  
 1401 3107 3108 3401  
 NT INSPECTOR SATELLITE  
 MIDAS 3 SATELLITE  
 MIDAS 4 SATELLITE  
 MIDAS 5 SATELLITE  
 MIDAS 6 SATELLITE  
 MIDAS 7 SATELLITE  
 MIDAS SATELLITES  
 PHOTO RECONNAISSANCE SPACECRAFT  
 BT \*MILITARY SPACECRAFT  
 RT AERIAL RECONNAISSANCE  
 ARTIFICIAL SATELLITES  
 MANNED ORBITAL LABORATORIES  
 \*MANNED SPACECRAFT  
 \*UNMANNED SPACECRAFT  
 \*RECONSTRUCTION  
 3406 3407  
 NT WAVE FRONT RECONSTRUCTION  
 RT CONSTRUCTION  
 RESTORATION  
 RECORDERS  
 0202 0701 0802 1401 1402 2002  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CABLE FORCE RECORDERS  
 DATA RECORDERS

PLAYBACKS  
 #RECORDING INSTRUMENTS  
 REGISTERS (COMPUTERS)  
 TAPE RECORDERS  
 VLF EMISSION RECORDERS  
 RECORDING  
 3403 3405 3406 3407  
 NT DATA RECORDING  
 DATA SMOOTHING  
 MAGNETIC RECORDING  
 PHOTOGRAPHIC RECORDING  
 PREDICTION RECORDING  
 RT PLAYBACKS  
 PLOTTING  
 STORAGE  
 RECORDING HEADS  
 0803  
 RT DATA RECORDING  
 #RECORDING INSTRUMENTS  
 #RECORDING INSTRUMENTS  
 0501 0904 0905 1308 1403 1406 3405  
 UF EMISSOGRAPHS  
 MAGNETOGRAPHS  
 PHOTOGRAPHIC RECORDING INSTRUMENTS  
 PLYVIOGRAPHS  
 RHEOGRAPHY  
 THERMOGRAMS  
 THERMOGRAMS  
 BATHYTHERMOGRAPHS  
 NT CABLE FORCE RECORDERS  
 FLIGHT LOAD RECORDERS  
 FLIGHT RECORDERS  
 LUNAR SEISMOGRAPHS  
 MECHANOGAPHS  
 OSCILLOGRAPHS  
 PLOTTERS  
 PRESSURE RECORDERS  
 RADIONETEOROGAPHS  
 SEISMOGRAPHS  
 WEATHER DATA RECORDERS  
 WHISTLER RECORDERS  
 X-Y PLOTTERS  
 RT #AIRCRAFT INSTRUMENTS  
 #AUTOMATIC CONTROL  
 CONTROL EQUIPMENT  
 COUNTERS  
 DATA RECORDERS  
 ELECTRONIC RECORDING SYSTEMS  
 #FLIGHT INSTRUMENTS  
 GRAPHS (CHARTS)  
 INDICATING INSTRUMENTS  
 INSTRUMENT RECEIVERS  
 INSTRUMENT TRANSMITTERS  
 INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 METEOROLOGICAL INSTRUMENTS  
 PENS  
 PHOTOGRAPHIC RECORDING  
 RECORDERS  
 RECORDING HEADS  
 SONOGRAMS  
 SPHYGMOGRAPHY  
 TAPE RECORDERS  
 #TRANSDUCERS  
 VLF EMISSION RECORDERS  
 RECORDS  
 0904 0905 1105 1106 3403 3405 3406  
 BT #DOCUMENTS  
 RT CASE HISTORIES  
 DATA  
 #DATA PROCESSING  
 DATA RECORDING  
 DOCUMENTATION  
 FORMAT  
 HISTORIES  
 PERIODICALS  
 PLAYBACKS  
 REPORTS  
 REPRODUCTION  
 SUPPLEMENTS  
 TECHNICAL WRITING  
 TESTS  
 TEXTS  
 RECOVERABILITY  
 3408  
 RT PROPERTIES  
 RECOVERY  
 RECOVERABLE LAUNCH VEHICLES  
 1102 3102 3103 3110  
 BT #LAUNCH VEHICLES  
 RT BOOSTER RECOVERY  
 LAUNCH VEHICLE CONFIGURATIONS

## NASA THESAURUS (ALPHABETICAL LISTING)

MULTIENGINE VEHICLES.  
 RECOVERABLE SPACECRAFT  
 RECOVERY  
 RECOVERY PARACHUTES  
 REUSABLE LAUNCH VEHICLES  
 WINGED VEHICLES  
 RECOVERABLE SATELLITES  
 USE RECOVERABLE SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 1102 3104 3107 3110  
 UF RECOVERABLE SATELLITES  
 NT AEROSPACEPLANES  
 APOLLO SPACECRAFT  
 ASTRO VEHICLE  
 ASTROPLANE  
 AURORA 7  
 DISCOVERER 17 SATELLITE  
 DISCOVERER 18 SATELLITE  
 DISCOVERER 29 SATELLITE  
 DISCOVERER 30 SATELLITE  
 DISCOVERER 32 SATELLITE  
 DISCOVERER 36 SATELLITE  
 DISCOVERER 38 SATELLITE  
 FAITH 7  
 FREEDOM 7  
 FRIENDSHIP 7  
 GENINI (GT-1) SPACECRAFT  
 GENINI B SPACECRAFT  
 GENINI SPACECRAFT  
 GENINI 2 SPACECRAFT  
 LIBERTY BELL 7  
 MARS (MANNED REUSABLE SPACECRAFT)  
 MERCURY SPACECRAFT  
 REUSABLE SPACECRAFT  
 SIGMA 7  
 SPACE SHUTTLES  
 VOSKHOD MANNED SPACECRAFT  
 VOSKHOD 1 SPACECRAFT  
 VOSKHOD 2 SPACECRAFT  
 VOSTOK SPACECRAFT  
 VOSTOK 1 SPACECRAFT  
 VOSTOK 2 SPACECRAFT  
 VOSTOK 3 SPACECRAFT  
 VOSTOK 4 SPACECRAFT  
 VOSTOK 5 SPACECRAFT  
 VOSTOK 6 SPACECRAFT  
 BT #REENTRY VEHICLES  
 RT BOOSTER ROCKET ENGINES  
 BOOSTGLIDE VEHICLES  
 #HYPERSONIC VEHICLES  
 LIFTING REENTRY VEHICLES  
 #MANEUVERABLE SPACECRAFT  
 #MANNED SPACECRAFT  
 #MILITARY SPACECRAFT  
 RECOVERABLE LAUNCH VEHICLES  
 RENDEZVOUS SPACECRAFT  
 #SATELLITES  
 #SPACE CAPSULES  
 SPACECRAFT  
 SPACECRAFT RECOVERY  
 #UNMANNED SPACECRAFT  
 WINGED VEHICLES  
 RECOVERY  
 0101 0201 1202 3105 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOOSTER RECOVERY  
 MATERIALS RECOVERY  
 PRESSURE RECOVERY  
 #RECLAMATION  
 RECOVERABILITY  
 RECOVERABLE LAUNCH VEHICLES  
 RECOVERY PARACHUTES  
 RETRIEVAL  
 REUSE  
 SPACECRAFT RECOVERY  
 STRESS RELAXATION  
 STRESS RELIEVING  
 VISUAL DISCRIMINATION  
 RECOVERY PARACHUTES  
 0208 1102 3110  
 BT PARACHUTES  
 RT BOOSTER RECOVERY  
 DISCOVERER RECOVERY CAPSULES  
 RECOVERABLE LAUNCH VEHICLES  
 RECOVERY  
 REBORN PARACHUTES  
 SPACECRAFT RECOVERY  
 RECOVERY TEMPERATURE  
 USE SKIN TEMPERATURE (NON-BIOLOGICAL)

# NASA THESAURUS (ALPHABETICAL LISTING)

# REENTRY

RECOVERY VEHICLES  
0206  
(EXCLUDES RECOVERABLE VEHICLES)  
RT HELICOPTERS  
MILITARY VEHICLES  
TRUCKS  
RECOVERY ZONES  
1102 3009 3105  
UP SPLASH POINTS  
RT DOWNRANGE  
LANDING SITES  
REENTRY RANGE  
#REGIONS  
SPACECRAFT RECOVERY  
RECREATION  
0408 3406  
RT MORALE  
RELAXATION (PHYSIOLOGY)  
REST  
URBAN PLANNING  
URBAN RESEARCH  
RECRYSTALLIZATION  
1704 2601 3303  
BT CRYSTALLIZATION  
RT ANNEALING  
#HEAT TREATMENT  
METALLURGY  
NUCLEATION  
POLYGONIZATION  
SEPARATION  
RECTANGLES  
1902  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
POLYGONS  
TETRAGONS  
RT RECTANGULAR PLANFORMS  
RECTANGULAR BEAMS  
3202 3203  
BT BEAMS (SUPPORTS)  
#STRUCTURAL MEMBERS  
RT BOX BEAMS  
RECTANGULAR GUIDES  
0710 2402  
RT BEAM WAVEGUIDES  
MICROWAVE FILTERS  
WAVEGUIDES  
RECTANGULAR PANELS  
0101 2309 3202 3203  
BT PANELS  
#PLANFORMS  
RECTANGULAR PLANFORMS  
RT RECTANGULAR PLATES  
RECTANGULAR WINGS  
#STRUCTURAL MEMBERS  
WING PANELS  
RECTANGULAR PLANFORMS  
0101 3202 3203  
NT RECTANGULAR PANELS  
RECTANGULAR PLATES  
RECTANGULAR WINGS  
BT #PLANFORMS  
RT RECTANGLES  
WING PLANFORMS  
RECTANGULAR PLATES  
0101 3202 3203  
BT #PLANFORMS  
RECTANGULAR PLANFORMS  
RT FLAT PLATES  
METAL PLATES  
PLATES  
PLATES (STRUCTURAL MEMBERS)  
RECTANGULAR PANELS  
RECTANGULAR WIND TUNNELS  
1106 1110  
BT #TEST FACILITIES  
WIND TUNNELS  
RT SUBSONIC WIND TUNNELS  
RECTANGULAR WINGS  
0101 0202  
UP STRAIGHT WINGS  
BT #AIRFOILS  
#PLANFORMS  
RECTANGULAR PLANFORMS  
UNSWEPT WINGS  
WINGS  
RT RECTANGULAR PANELS  
RECTIFICATION  
3407  
RT CONDENSATION  
#RECTIFIERS  
0902 0905  
(EXCLUDES PHOTOGRAPHIC RECTIFIER)  
NT AVALANCHE DIODES  
CRYOSAR  
CRYSTAL RECTIFIERS  
GERMANIUM DIODES  
IGNITRONS  
THYRATONS  
THYRISTORS  
RT #DIODES  
#ELECTRON TUBES  
ENERGY SOURCES  
FORM FACTORS  
MERCURY ARCS  
METAL OXIDE SEMICONDUCTORS  
POWER SUPPLIES  
POWER SUPPLY CIRCUITS  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
THIN FILMS  
RECTUM  
0405  
BT #DIGESTIVE SYSTEM  
GASTROINTESTINAL SYSTEM  
INTESTINES  
#VISCERA  
RECUPERATORS  
USE REGENERATORS  
RECURSION FORMULAS  
USE RECURSIVE FUNCTIONS  
RECURSIVE FUNCTIONS  
1902  
UP RECURSION FORMULAS  
BT #FUNCTIONS (MATHEMATICS)  
RECYCLING  
USE #CIRCULATION  
RED ARCS  
1302 2903 3008  
BT #ATMOSPHERIC RADIATION  
AURORAL ARCS  
AURORAS  
RT ARCS  
AURORAL IONIZATION  
RED BLOOD CELLS  
USE ERYTHROCYTES  
RED SEA  
1305  
BT SEAS  
RED SHIFT  
1411 2902 2903 3001  
RT COSMOLOGY  
DOPPLER EFFECT  
DOPPLER-PIZZEAU EFFECT  
GALAXIES  
RADIAL VELOCITY  
REDEYE MISSILE  
3101 3401  
BT ANTIAIRCRAFT MISSILES  
#MISSILES  
SURFACE TO AIR MISSILES  
RT SOLID PROPELLANT ROCKET ENGINES  
REDUCED GRAVITY  
1309  
UP LOW GRAVITY  
SUBGRAVITY  
BT GRAVITATION  
RT ANTIGRAVITY  
LOW GRAVITY MANUFACTURING  
REDUCTION  
0602 1902 3406 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP DECREMENTING  
DIMINUTION  
SHORTENING  
RT #ATTENUATION  
CLEANING  
COMMINUTION  
CONTRACTION  
DAMPING  
DATA REDUCTION  
DECELERATION  
DECONTAMINATION  
DEMAGNETIZATION  
DEOXYGENATION  
DEPLETION  
DEPOLARIZATION  
DILUTION  
DIMMING  
DISPERSING  
DISSIPATION  
DRAG REDUCTION  
ELIMINATION  
FRICTION REDUCTION  
HYDROGENOLYSIS  
IODINOMETRY  
LEAKAGE  
#METAL WORKING  
NOISE REDUCTION  
#OPTIMIZATION  
PRESSURE REDUCTION  
PREVENTION  
PURIFICATION  
REDUCTION (CHEMISTRY)  
REFINING  
RELAXATION (MECHANICS)  
REMOVAL  
RETARDING  
SHRINKAGE  
SIDELOBE REDUCTION  
SPIN REDUCTION  
STOPPING  
REDUCTION (CHEMISTRY)  
0602  
UP PHOTOREDUCTION  
NT DEOXIDIZING  
HYDROGENATION  
BT #CHEMICAL REACTIONS  
RT DEHYDROGENATION  
ELECTRODEPOSITION  
ELECTROLYSIS  
METAL POWDER  
OXIDATION  
PURIFICATION  
REDUCTION  
ROASTING  
REDUNDANCY  
3408  
RT ASSURANCE  
#COMMUNICATION THEORY  
CORRECTION  
ERROR DETECTION CODES  
INFORMATION THEORY  
RELIABILITY  
REDUNDANCY ENCODING  
0703 0802 0803  
BT CODING  
RT DATA TRANSMISSION  
ERROR CORRECTING DEVICES  
ERROR DETECTION CODES  
REPEITION  
SIGNAL ENCODING  
REDUNDANT COMPONENTS  
0503 0702 0802 0902  
UP REDUNDANT STRUCTURES  
RT COMPONENTS  
RELIABILITY  
SPARE PARTS  
STRUCTURES  
REDUNDANT STRUCTURES  
USE REDUNDANT COMPONENTS  
REEDS (PLANTS)  
0409  
BT GRASSES  
#PLANTS (BOTANY)  
REELS  
1502 1504  
RT CONTAINERS  
SPOOLS  
REENTRY  
3105 3407  
UP REENTRY CONDITIONS  
NT HYPERBOLIC REENTRY  
HYPERSONIC REENTRY  
MANNED REENTRY  
SPACECRAFT REENTRY  
#ATMOSPHERIC ENTRY  
RT ABLATION  
AERODYNAMIC HEATING  
AERODYNAMIC STABILITY  
AERODYNAMICS  
AEROTHERMODYNAMICS  
DESCENT  
DESCENT TRAJECTORIES  
ENTRY  
FLIGHT PATHS  
IMPACT PREDICTION  
LIFTING REENTRY VEHICLES  
LOW OBSERVABLE REENTRY VEHICLES  
#MISSILES  
REENTRY EFFECTS  
REENTRY PHYSICS  
#REENTRY VEHICLES  
ROCKETS

# REENTRY ANGLE

#SPACE FLIGHT  
 TERMINAL GUIDANCE  
 REENTRY ANGLE  
 USE ANGLES (GEOMETRY)  
 REENTRY TRAJECTORIES  
 REENTRY BODIES  
 USE #REENTRY VEHICLES  
 REENTRY COMMUNICATION  
 0707 3104 3108  
 BT SPACE COMMUNICATION  
 SPACECRAFT COMMUNICATION  
 #TELECOMMUNICATION  
 RT BLACKOUT (PROPAGATION)  
 MANNED REENTRY  
 PLASMA SHEATHS  
 RADIO COMMUNICATION  
 REENTRY EFFECTS  
 VOICE COMMUNICATION  
 REENTRY CONDITIONS  
 USE REENTRY  
 REENTRY DECOYS  
 3101 3105 3401  
 BT #COUNTERMEASURES  
 DECOYS  
 #REENTRY VEHICLES  
 RT BALLISTIC MISSILE DECOYS  
 MISSILE DEFENSE  
 REENTRY EFFECTS  
 0101 1202 3105  
 RT ABLATION  
 AERODYNAMIC HEATING  
 BLACKOUT (PROPAGATION)  
 EFFECTS  
 HYPERSONIC REENTRY  
 PLASMA SHEATHS  
 REENTRY  
 REENTRY COMMUNICATION  
 REENTRY PHYSICS  
 TEMPERATURE EFFECTS  
 REENTRY GLIDERS  
 USE LIFTING REENTRY VEHICLES  
 REENTRY GUIDANCE  
 1102 2102 3105  
 BT #GUIDANCE (MOTION)  
 RT #AUTOMATIC CONTROL  
 DESCENT TRAJECTORIES  
 INERTIAL GUIDANCE  
 MANUAL CONTROL  
 REENTRY TRAJECTORIES  
 SATELLITE GUIDANCE  
 SPACECRAFT GUIDANCE  
 TERMINAL GUIDANCE  
 REENTRY PHYSICS  
 0101 1203 2309 3006 3009 3105  
 RT ABLATION  
 AEROTHERMOCHEMISTRY  
 AEROTHERMODYNAMICS  
 HYPERSONIC REENTRY  
 LOW OBSERVABLE REENTRY VEHICLES  
 PHYSICS  
 PLASMA SHEATHS  
 REENTRY  
 REENTRY EFFECTS  
 REENTRY SHIELDING  
 REENTRY TRAJECTORIES  
 REENTRY RANGE  
 1203 3105  
 BT DISTANCE  
 RT MISSILE RANGES  
 RECOVERY ZONES  
 REENTRY TRAJECTORIES  
 REENTRY SHIELDING  
 3105 3305  
 BT HEAT SHIELDING  
 #SHIELDING  
 RT ABLATION  
 ABLATIVE NOSE CONES  
 AERODYNAMIC HEATING  
 AEROTHERMOCHEMISTRY  
 HEAT SINKS  
 INSULATED STRUCTURES  
 NOSE CONES  
 REENTRY PHYSICS  
 #REENTRY VEHICLES  
 SPACECRAFT SHIELDING  
 THERMAL CONTROL COATINGS  
 THERMAL INSULATION  
 THERMAL PROTECTION  
 REENTRY TRAJECTORIES  
 0101 1904 3006 3105  
 UP REENTRY ANGLE  
 BT DESCENT TRAJECTORIES

#TRAJECTORIES  
 RT CIRCULUNAR TRAJECTORIES  
 FLIGHT MECHANICS  
 HYPERBOLIC REENTRY  
 MISSILE TRAJECTORIES  
 MOON-EARTH TRAJECTORIES  
 REENTRY GUIDANCE  
 REENTRY PHYSICS  
 REENTRY RANGE  
 SPACECRAFT TRAJECTORIES  
 TERMINAL GUIDANCE  
 #REENTRY VEHICLES  
 3105  
 UP REENTRY BODIES  
 AEROSPACEPLANES  
 APOLLO SPACECRAFT  
 ASTRO VEHICLE  
 ASTROPLANE  
 AURORA 7  
 BOOSTGLIDE VEHICLES  
 DISCOVERER 17 SATELLITE  
 DISCOVERER 18 SATELLITE  
 DISCOVERER 29 SATELLITE  
 DISCOVERER 30 SATELLITE  
 DISCOVERER 32 SATELLITE  
 DISCOVERER 36 SATELLITE  
 DISCOVERER 38 SATELLITE  
 FAITH 7  
 FDL-5 REENTRY VEHICLE  
 FREEDOM 7  
 FRIENDSHIP 7  
 GEMINI (GT-1) SPACECRAFT  
 GEMINI B SPACECRAFT  
 GEMINI SPACECRAFT  
 GEMINI 2 SPACECRAFT  
 HL-10 REENTRY VEHICLE  
 HLD-35 REENTRY VEHICLE  
 JANUS SPACECRAFT  
 JIM DANDY 2 REENTRY BODY  
 LIBERTY BELL 7  
 LIFTING REENTRY VEHICLES  
 LOW OBSERVABLE REENTRY VEHICLES  
 M-2 LIFTING BODY  
 MANEUVERABLE REENTRY BODIES  
 MARK 1 REENTRY BODY  
 MARK 2 REENTRY BODY  
 MARK 3 REENTRY BODY  
 MARK 4 REENTRY BODY  
 MARK 5 REENTRY BODY  
 MARK 6 REENTRY BODY  
 MARK 10 REENTRY BODY  
 MARK 11 REENTRY BODY  
 MARK 12 REENTRY BODY  
 MARK 17 REENTRY BODY  
 MARS (MANNED REUSABLE SPACECRAFT)  
 MERCURY SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 REENTRY DECOYS  
 REUSABLE SPACECRAFT  
 SIGMA 7  
 TRAILBLAZER 1 REENTRY VEHICLE  
 TRAILBLAZER 2 REENTRY VEHICLE  
 VOSKHOD MANNED SPACECRAFT  
 VOSKHOD 1 SPACECRAFT  
 VOSKHOD 2 SPACECRAFT  
 VOSTOK SPACECRAFT  
 VOSTOK 1 SPACECRAFT  
 VOSTOK 2 SPACECRAFT  
 VOSTOK 3 SPACECRAFT  
 VOSTOK 4 SPACECRAFT  
 VOSTOK 5 SPACECRAFT  
 VOSTOK 6 SPACECRAFT  
 X-20 AIRCRAFT  
 X-17 REENTRY VEHICLE  
 ABLATIVE NOSE CONES  
 AEROTHERMOCHEMISTRY  
 ATHENA ROCKET VEHICLE  
 BALLISTIC VEHICLES  
 BLUFF BODIES  
 BODIES  
 FERRY SPACECRAFT  
 FLIGHT VEHICLES  
 #HYPERSONIC VEHICLES  
 INSULATED STRUCTURES  
 LANDING MODULES  
 #LIFTING BODIES  
 #MANEUVERABLE SPACECRAFT  
 #MISSILES  
 NOSE CONES  
 PYRAMIDAL BODIES  
 REENTRY  
 REENTRY SHIELDING

# NASA TREASURES (ALPHABETICAL LISTING)

ROCKETS  
 #SPACE CAPSULES  
 SPACECRAFT  
 SPACECRAFT CONFIGURATIONS  
 TERMINAL GUIDANCE  
 TEST VEHICLES  
 VEHICLES  
 WINGED VEHICLES  
 REFERENCE ATMOSPHERES  
 1301  
 UP STANDARD ATMOSPHERES  
 BT ATMOSPHERIC MODELS  
 #MODELS  
 STANDARDS  
 REFERENCE SYSTEMS  
 3405  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BIBLIOGRAPHIES  
 CELESTIAL REFERENCE SYSTEMS  
 #COORDINATES  
 DOCUMENTATION  
 INDEXES (DOCUMENTATION)  
 INERTIAL REFERENCE SYSTEMS  
 LIBRARIES  
 WISWESSER NOTATIONS  
 REFERENCES (STANDARDS)  
 USE STANDARDS  
 REFILLING  
 3407  
 BT FILLING  
 RT LOADING  
 REPLENISHMENT  
 REFINEMENTS  
 USE IMPROVEMENT  
 REVISIONS  
 REFINING  
 0602 0604 1504 1704  
 RT ELECTROREFINING  
 ELECTROSLAG REFINING  
 ALKYLATION  
 BENEFICIATION  
 CLEANING  
 CONVERSION  
 CRYSTALLIZATION  
 DESULFURIZING  
 DEWAXING  
 DISTILLATION  
 ENRICHMENT  
 EXTRACTION  
 FRACTIONATION  
 HYDROGENATION  
 HYDROMETALLURGY  
 ISOMERIZATION  
 MATERIALS RECOVERY  
 POLYMERIZATION  
 PROCESSING  
 PURIFICATION  
 PYROMETALLURGY  
 REDUCTION  
 SEPARATION  
 SNEETING  
 SUBLIMATION  
 UPGRADING  
 ZONE MELTING  
 REFLECTANCE  
 2306 2310  
 UP REFLECTION COEFFICIENT  
 REFLECTIVITY  
 RT ABSORPTANCE  
 ALBEDO  
 ATTENUATION COEFFICIENTS  
 BIREFRINGENCE  
 BISTATIC REFLECTIVITY  
 BRIGHTNESS  
 COARSENESS  
 COSMIC RAY ALBEDO  
 EARTH ALBEDO  
 ELECTROMAGNETIC PROPERTIES  
 FLOW COEFFICIENTS  
 #OPTICAL MEASUREMENT  
 OPTICAL REFLECTION  
 PHOTOMETRY  
 RAY TRACING  
 REFLECTION  
 REFLECTOMETERS  
 #SURFACE PROPERTIES  
 SURFACE ROUGHNESS EFFECTS  
 TRANSMITTANCE  
 REFLECTED RADIATION  
 USE REFLECTED WAVES

# NASA THESAURUS (ALPHABETICAL LISTING)

**REFLECTED RAYS**  
 USE REFLECTED WAVES  
**REFLECTED WAVES**  
 0705 0710 2306 2310  
 UF REFLECTED RADIATION  
 REFLECTED RAYS  
 RT CORPUSCULAR RADIATION  
 #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 INCIDENT RADIATION  
 OPTICAL REFLECTION  
 PHOTON BEAMS  
 REFRACTED WAVES  
 RETROREFLECTION  
**REFLECTING TELESCOPES**  
 1412 2306  
 BT #TELESCOPES  
 RT ASTRONOMICAL TELESCOPES  
 CASSEGRAIN OPTICS  
 MIRRORS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 PARABOLOID MIRRORS  
 #REFLECTORS  
 SPECTROSCOPIC TELESCOPES  
 STRATOSCOPE TELESCOPES  
**REFLECTION**  
 0705 0710 2305 2307 2310 2402 2405  
 UF SPREAD REFLECTION  
 NT INFRARED REFLECTION  
 RETROREFLECTION  
 SIGNAL REFLECTION  
 SPECULAR REFLECTION  
 ULTRAVIOLET REFLECTION  
 WAVE REFLECTION  
 RT BREWSTER ANGLE  
 DEFLECTION  
 #DIFFUSION  
 ECHELETTE GRATINGS  
 ELECTROMAGNETIC ABSORPTION  
 #ELECTROMAGNETIC RADIATION  
 IMPINGEMENT  
 LIGHT (VISIBLE RADIATION)  
 OPTICS  
 REFLECTANCE  
 #REFRACTION  
 #SCATTERING  
 #TRANSMISSION  
 ZERO SOUND  
**REFLECTION COEFFICIENT**  
 USE REFLECTANCE  
**REFLECTIVITY**  
 USE REFLECTANCE  
**REFLECTOMETERS**  
 1002 1406 2310  
 NT MICROWAVE REFLECTOMETERS  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT COMPARATORS  
 DIRECTORS (ANTENNA ELEMENTS)  
 #OPTICAL MEASUREMENT  
 PHOTOETERS  
 REACTOR CORES  
 REFLECTANCE  
 SCHELKUNOFF PRINCIPLE  
 TWO REFLECTOR ANTENNAS  
 ULTRAVIOLET REFLECTION  
**REFLECTOR SATELLITES**  
 USE PASSIVE SATELLITES  
**#REFLECTORS**  
 0710 0901 1412 1504 2311  
 NT FRESNEL REFLECTORS  
 PARABOLIC REFLECTORS  
 PARABOLOID MIRRORS  
 RADAR CORNER REFLECTORS  
 RADAR REFLECTORS  
 SOLAR REFLECTORS  
 RT ANTENNAS  
 #ATTENUATORS  
 BAFFLES  
 CEILINGS (ARCHITECTURE)  
 DEFLECTORS  
 DIRECTORS (ANTENNA ELEMENTS)  
 MIRRORS  
 RADIATION SHIELDING  
 REACTOR CORES  
 REFLECTING TELESCOPES  
 SCHELKUNOFF PRINCIPLE  
 SUBREFLECTORS  
 #TELESCOPES  
 TWO REFLECTOR ANTENNAS

**#REFLEXES**  
 0408  
 BT CAROTID SINUS REFLEX  
 COUGH  
 HERING-BREWER REFLEX  
 RESPIRATORY REFLEXES  
 SNEEZING  
 RT DECONDITIONING  
 REACTION TIME  
 VASOCONSTRICTION  
 VASODILATION  
**REFRACTED RADIATION**  
 USE REFRACTED WAVES  
**REFRACTED RAYS**  
 USE REFRACTED WAVES  
**REFRACTED WAVES**  
 2306 2310 2902  
 UF REFRACTED RADIATION  
 REFRACTED RAYS  
 CORPUSCULAR RADIATION  
 EIKONAL EQUATION  
 #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 INCIDENT RADIATION  
 PHOTON BEAMS  
 REFLECTED WAVES  
 #REFRACTION  
 WAVES  
**REFRACTING TELESCOPES**  
 1412 2310  
 BT #TELESCOPES  
 RT ASTRONOMICAL TELESCOPES  
 LENSES  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 SPECTROSCOPIC TELESCOPES  
 STRATOSCOPE TELESCOPES  
**#REFRACTION**  
 2310 2311 3401  
 NT ATMOSPHERIC REFRACTION  
 BIREFRINGENCE  
 RADIO WAVE REFRACTION  
 RT ASPHERICITY  
 ASTIGMATISM  
 CONDUCTION  
 DEFLECTION  
 DIFFRACTION  
 DISTORTION  
 DIVERGENCE  
 HUYGENS PRINCIPLE  
 ISOCHROMATICS  
 LENSES  
 LIGHT (VISIBLE RADIATION)  
 PHOTOELASTICITY  
 PRISMS  
 REFLECTION  
 REFRACTED WAVES  
 REFRACTIVITY  
 SINKING  
 SNELLS LAW  
 #TRANSMISSION  
 VOIGT EFFECT  
 WAVE DISPERSION  
 WAVE PROPAGATION  
**REFRACTIVE INDEX**  
 USE REFRACTIVITY  
**REFRACTIVITY**  
 0710 2310 2402 2902 3408  
 UF REFRACTIVE INDEX  
 RT ATMOSPHERIC REFRACTION  
 BIREFRINGENCE  
 BIREFRINGENT COATINGS  
 BREWSTER ANGLE  
 ELECTROMAGNETIC PROPERTIES  
 LIGHT (VISIBLE RADIATION)  
 OPACITY  
 OPTICAL THICKNESS  
 POLARIZATION (WAVES)  
 #RATIOS  
 #REFRACTION  
 REFRACTOMETERS  
 SNELLS LAW  
 UNDERWATER OPTICS  
**REFRACTOMETERS**  
 1406 1707 2310  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT GONIOMETERS  
 #OPTICAL MEASUREMENT  
 REFRACTIVITY

# REFRACTORY PERIOD

**REFRACTORIES**  
 0602 2701 2702 2801 2805 2808 3203  
 3301 3303 3304 3305  
 BT #REFRACTORY MATERIALS  
 RT CERAMICS  
 CERMETS  
 COMBUSTION CHAMBERS  
 FORSTERITE  
 FURNACES  
 HEARTHS  
 MORTARS (MATERIAL)  
 ROCKET ENGINES  
 ROCKET LININGS  
 THERMAL INSULATION  
 TURBINES  
**#REFRACTORY MATERIALS**  
 1701 1704 1801 2310  
 UF HIGH MELTING COMPOUNDS  
 HIGH TEMPERATURE MATERIALS  
 PYROGRAPHALLOY  
 NT MOLYBDENUM  
 MOLYBDENUM ALLOYS  
 NIOBIUM  
 NIOBIUM ALLOYS  
 NIOBIUM ISOTOPES  
 NIOBIUM 95  
 OSMIUM ALLOYS  
 OSMIUM ISOTOPES  
 PORCELAIN  
 REFRACTORIES  
 REFRACTORY METAL ALLOYS  
 REFRACTORY METALS  
 RENE 41  
 RENE 63  
 RENE 77  
 RHENIUM  
 RHENIUM ALLOYS  
 RHENIUM ISOTOPES  
 TANTALUM  
 TANTALUM ALLOYS  
 TUNGSTEN  
 TUNGSTEN ALLOYS  
 TUNGSTEN ISOTOPES  
 RT ABLATIVE MATERIALS  
 CARBIDES  
 CARBORUNDUM (TRADEMARK)  
 CERAMICS  
 CERMETS  
 CLAYS  
 HIGH TEMPERATURE RESEARCH  
 INORGANIC MATERIALS  
 MATERIALS  
 NONFLAMMABLE MATERIALS  
 NOZZLE WALLS  
 #PYROLYTIC MATERIALS  
 SCOTCHLITE (TRADEMARK)  
**REFRACTORY METAL ALLOYS**  
 0710 1704  
 NT MOLYBDENUM ALLOYS  
 NIOBIUM ALLOYS  
 OSMIUM ALLOYS  
 RENE 41  
 RENE 63  
 RENE 77  
 RHENIUM ALLOYS  
 TANTALUM ALLOYS  
 TUNGSTEN ALLOYS  
 BT #ALLOYS  
 HEAT RESISTANT ALLOYS  
 #REFRACTORY MATERIALS  
**REFRACTORY METALS**  
 1703 1704  
 (METALS MELTING ABOVE APPROXIMATELY  
 2400 C)  
 NT MOLYBDENUM  
 NIOBIUM  
 NIOBIUM ISOTOPES  
 NIOBIUM 95  
 OSMIUM ISOTOPES  
 RHENIUM  
 RHENIUM ISOTOPES  
 TANTALUM  
 TUNGSTEN  
 TUNGSTEN ISOTOPES  
 BT #METALS  
 #REFRACTORY MATERIALS  
 TRANSITION METALS  
 RT HEAT RESISTANT ALLOYS  
**REFRACTORY PERIOD**  
 0710 2306 2309 2402  
 RT REACTION TIME  
 RELAXATION

## REFRASIL (TRADEMARK)

#RESPONSES  
TIME LAG  
REFRASIL (TRADEMARK)  
USE #FIBERS  
SILICON DIOXIDE  
REFRIGERANTS  
1803 2303 3303  
RT ABSORBERS (MATERIALS)  
AIR CONDITIONING  
AMMONIA  
BRINES  
COOLANTS  
COOLING SYSTEMS  
FLUOROHYDROCARBONS  
FREON (TRADEMARK)  
#ICE  
REFRIGERATING  
REFRIGERATING MACHINERY  
REFRIGERATORS  
SOLID NITROGEN  
REFRIGERATING  
1803 2303 3303 0504  
RT AIR CONDITIONING  
AIR COOLING  
COLD TRAPS  
CONDENSING  
COOLERS  
#COOLING  
COOLING SYSTEMS  
CRYOGENIC EQUIPMENT  
CRYOGENICS  
DEPROSTING  
DEHUMIDIFICATION  
FREEZING  
FREON (TRADEMARK)  
FROZEN FOODS  
HUMIDITY  
LOW TEMPERATURE  
PRESERVING  
REFRIGERANTS  
REFRIGERATING MACHINERY  
REFRIGERATORS  
#TEMPERATURE  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
THERMOELECTRIC COOLING  
VENTILATION  
REFRIGERATING MACHINERY  
1803 2303 3303 3404  
NT REFRIGERATORS  
RT ABSORBERS (EQUIPMENT)  
AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
BLOWERS  
COMPRESSORS  
CONDENSERS (LIQUIFIERS)  
COOLERS  
COOLING SYSTEMS  
CRYOGENIC EQUIPMENT  
EVAPORATORS  
HEAT PUMPS  
MACHINERY  
REFRIGERANTS  
REFRIGERATING  
TEMPERATURE CONTROL  
THERMOELECTRIC COOLING  
REFRIGERATORS  
1504 1803 2303 3303  
BT REFRIGERATING MACHINERY  
RT COOLERS  
DEPROSTING  
REFRIGERANTS  
REFRIGERATING  
REFUELING  
0302 1102  
UP FUELING  
NT AIR TO AIR REFUELING  
RT AIRCRAFT HAZARDS  
FUEL CONSUMPTION  
FUEL CONTAMINATION  
FUEL CONTROL  
FUEL SYSTEMS  
GROUND SUPPORT EQUIPMENT  
PREFLIGHT OPERATIONS  
PROPELLANT TRANSFER  
REPLENISHMENT  
RETRACTABLE EQUIPMENT  
REGENERATION  
0403 0404 0408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT REGENERATION (ENGINEERING)  
REGENERATION (PHYSIOLOGY)  
REGENERATION (ENGINEERING)  
2311 3404  
UP REGENERATIVE CYCLES  
RT GENERATION  
POSITIVE FEEDBACK  
#RECLAMATION  
REGENERATION  
REGENERATION (PHYSIOLOGY)  
0403 0404 0408  
UP BIOREGENERATION  
RT PHYSIOLOGY  
REGENERATION  
REGENERATIVE COOLING  
1803 2808 3303  
BT #COOLING  
RT HEAT EXCHANGERS  
PRECOOLING  
GENERATORS  
REGENERATIVE CYCLES  
USE REGENERATION (ENGINEERING)  
REGENERATIVE FEEDBACK  
USE POSITIVE FEEDBACK  
REGENERATIVE FUEL CELLS  
0302 0602 3304  
BT DIRECT POWER GENERATORS  
#ELECTRIC GENERATORS  
#ELECTROCHEMICAL CELLS  
FUEL CELLS  
RT BIOCHEMICAL FUEL CELLS  
STORAGE BATTERIES  
REGENERATORS  
2806 3303  
UP RECUPERATORS  
NT REWARD (PSYCHOLOGY)  
THERMOSIPHONS  
RT ENERGY STORAGE  
HEAT EXCHANGERS  
HEAT SINKS  
REGENERATIVE COOLING  
TUBE HEAT EXCHANGERS  
REGGE POLES  
2311 2401 2402 2403 2405  
RT ANGULAR MOMENTUM  
POLES  
POMERANCHUK THEOREM  
SCATTERING CROSS SECTIONS  
REGINES  
3403  
RT #COMMUNITIES  
CULTURE (SOCIAL SCIENCES)  
#ENVIRONMENTS  
GOVERNMENTS  
NATIONS  
POLITICS  
#REGIONS  
1305 3406  
UP ZONES  
NT ANTARCTIC REGIONS  
ARCTIC REGIONS  
AUROREAL ZONES  
BRILLOUIN ZONES  
D REGION  
E REGION  
F REGION  
FRESNEL REGION  
GUTENBERG ZONE  
LUNBAR REGION  
N REGION  
MCNURDO SOUND  
NULL ZONES  
PELAGIC ZONE  
POLAR REGIONS  
ROSS ICE SHELF  
SUBARCTIC REGIONS  
TEMPERATE REGIONS  
TROPICAL REGIONS  
RT BELTS  
#BOUNDARIES  
CENTRAL AMERICA  
IONOSPHERE  
LAYERS  
RECOVERY ZONES  
SECTORS  
#SITES  
REGISTERS  
0801 1001  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT REGISTERS (AIR CIRCULATION)

## BASA THESAURUS (ALPHABETICAL LISTING)

REGISTERS (COMPUTERS)  
REGISTERS (AIR CIRCULATION)  
1504  
RT COOLING SYSTEMS  
REGISTERS  
REGISTERS (COMPUTERS)  
0801 1001  
NT ACCUMULATORS (COMPUTERS)  
SHIFT REGISTERS  
BT #COMPUTER STORAGE DEVICES  
RT CENTRAL PROCESSING UNITS  
RECORDERS  
REGISTERS  
REGRESSION (STATISTICS)  
USE REGRESSION ANALYSIS  
REGRESSION ANALYSIS  
0410 1902 1905  
UP REGRESSION (STATISTICS)  
NT REGRESSION COEFFICIENTS  
BT MULTIVARIATE STATISTICAL ANALYSIS  
#STATISTICAL ANALYSIS  
RT CLUMPS  
CORRELATION  
COVARIANCE  
EXPERIMENTAL DESIGN  
FACTOR ANALYSIS  
#FORECASTING  
LEAST SQUARES METHOD  
QUALITY CONTROL  
SIGNIFICANCE  
STATISTICAL TESTS  
VARIABILITY  
VARIANCE (STATISTICS)  
REGRESSION COEFFICIENTS  
1902 1905  
BT #COEFFICIENTS  
REGRESSION ANALYSIS  
#STATISTICAL ANALYSIS  
RT CORRELATION  
#FORECASTING  
MATHEMATICAL MODELS  
QUALITY CONTROL  
REGULARITY  
0408 3408  
RT PHYSIOLOGY  
PROPERTIES  
REGULATION  
USE CONTROL  
REGULATIONS  
3403  
RT ALLOWANCES  
CONTROL  
#LAW (JURISPRUDENCE)  
LIABILITIES  
PATENT POLICY  
PENALTIES  
POLICE  
POLICIES  
PROCUREMENT POLICY  
PROHIBITION  
#RULES  
#REGULATORS  
1003  
(EXTRACT ENERGY NEEDED FOR OPERATION  
FROM THE VARIABLE, MATERIAL, OR  
CONDITION BEING REGULATED)  
NT AUTOMATIC FREQUENCY CONTROL  
CURRENT REGULATORS  
FLOW REGULATORS  
FREQUENCY CONTROL  
FUEL FLOW REGULATORS  
GIBBERELLINS  
OXYGEN REGULATORS  
PRESSURE REGULATORS  
RELIEF VALVES  
SPEED REGULATORS  
THERMOSTATS  
VOLTAGE REGULATORS  
RT ACTUATORS  
#AUTOMATIC CONTROL  
AUTOMATIC CONTROL VALVES  
CONTROL  
#CONTROLLERS  
CRYOSTATS  
SPEED CONTROL  
REGULUS MISSILE  
3101 3401  
BT #MISSILES  
SURFACE TO SURFACE MISSILES  
RT SOLID PROPELLANT ROCKET ENGINES  
TURBOJET ENGINES

# NASA THESAURUS (ALPHABETICAL LISTING)

REHEATING  
 USE #HEATING  
 REIGNITION  
 USE IGNITION  
 REINFORCED MATERIALS  
 USE #COMPOSITE MATERIALS  
 REINFORCED PLASTICS  
 1809 3202  
 NT NICARTA  
 BT #COMPOSITE MATERIALS  
 #PLASTICS  
 RT LAMINATES  
 REINFORCEMENT (STRUCTURES)  
 THERMOSETTING RESINS  
 REINFORCED PLATES  
 3202 3203  
 BT PLATES (STRUCTURAL MEMBERS)  
 #STRUCTURAL MEMBERS  
 RT ANISOTROPIC PLATES  
 CORRUGATED PLATES  
 LAMINATES  
 REINFORCED SHELLS  
 REINFORCEMENT (STRUCTURES)  
 REINFORCED SHELLS  
 0201 3202 3203  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT ANISOTROPIC SHELLS  
 CORRUGATED SHELLS  
 CYLINDRICAL SHELLS  
 HEMISPHERICAL SHELLS  
 LIQUID FILLED SHELLS  
 METAL SHELLS  
 ORTHOTROPIC SHELLS  
 REINFORCED PLATES  
 REINFORCEMENT (STRUCTURES)  
 REINFORCEMENT RINGS  
 SHELL STABILITY  
 SPHERICAL SHELLS  
 THIN WALLED SHELLS  
 TOROIDAL SHELLS  
 WIND TUNNEL WALLS  
 REINFORCEMENT  
 3203 3406 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT REINFORCEMENT (PSYCHOLOGY)  
 REINFORCEMENT (STRUCTURES)  
 REINFORCEMENT (PSYCHOLOGY)  
 0410  
 RT #LEARNING  
 MOTIVATION  
 REINFORCEMENT  
 SELF STIMULATION  
 REINFORCEMENT (STRUCTURES)  
 3203  
 RT BULKHEADS  
 #COMPOSITE MATERIALS  
 FILLERS  
 LONGERONS  
 REINFORCED PLASTICS  
 REINFORCED PLATES  
 REINFORCED SHELLS  
 REINFORCEMENT  
 REINFORCEMENT RINGS  
 RIBS (SUPPORTS)  
 RIGID STRUCTURES  
 RING STRUCTURES  
 STIFFENING  
 STRINGERS  
 #STRUCTURAL MEMBERS  
 STRUCTURAL STABILITY  
 STRUCTURAL STRAIN  
 SUPPORTS  
 THICK WALLS  
 #WIRE  
 WIRE CLOTH  
 REINFORCEMENT RINGS  
 3202 3203  
 BT RING STRUCTURES  
 RT REINFORCED SHELLS  
 REINFORCEMENT (STRUCTURES)  
 RIBS (SUPPORTS)  
 RINGS  
 REINFORCING FIBERS  
 1507 1704 1811 3202  
 BT CARBON FIBERS  
 BT #FIBERS  
 RT #COMPOSITE MATERIALS  
 DACRON (TRADEMARK)  
 GLASS FIBERS  
 METAL MATRIX COMPOSITES

SYNTHETIC FIBERS  
 WHISKER COMPOSITES  
 REISSNER THEORY  
 3203  
 RT PLATES (STRUCTURAL MEMBERS)  
 STRESS ANALYSIS  
 THEORIES  
 REJECTION  
 1505 3404 3407  
 RT ACCEPTABILITY  
 ELIMINATION  
 EVALUATION  
 EXCLUSION  
 REMOVAL  
 #SELECTION  
 RELATIONSHIPS  
 0410 1902 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP INTERRELATIONSHIPS  
 RT APPROXIMATION  
 HOMOMOLOGY  
 RELATIVE BIOLOGICAL EFFECTIVENESS (RBE)  
 0401 0408 0411  
 UP RBE  
 BT BIOLOGICAL EFFECTS  
 RT #PHYSIOLOGICAL EFFECTS  
 RELATIVISTIC EFFECTS  
 2308 2311 3304  
 RT #DIMENSIONS  
 EFFECTS  
 #MASS  
 RELATIVITY  
 #TIME  
 VELOCITY  
 RELATIVISTIC PARTICLES  
 2308 2403  
 BT #PARTICLES  
 RT HAMILTON-JACOBI EQUATION  
 RELATIVISTIC VELOCITY  
 RELATIVISTIC PLASMAS  
 2308 2403 2502  
 BT #PLASMAS (PHYSICS)  
 RT ASTRON THERMONUCLEAR REACTOR  
 BREMSSTRAHLUNG  
 COSMIC PLASMA  
 ELECTRON PLASMA  
 GRAVITATIONAL COLLAPSE  
 HIGH TEMPERATURE PLASMAS  
 #PARTICLES  
 #PINCH EFFECT  
 PLASMA JETS  
 PLASMA-PARTICLE INTERACTIONS  
 PLASMA RADIATION  
 PONDEROMOTIVE FORCES  
 RELATIVISTIC THEORY  
 2308 2403  
 UP WIGHTMAN THEORY  
 RT MENDELSTAM REPRESENTATION  
 RELATIVISTIC VELOCITY  
 2308 2403  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT HIGH SPEED  
 HYPERVELOCITY  
 LIGHT SPEED  
 PARTICLE MOTION  
 RELATIVISTIC PARTICLES  
 RELATIVITY  
 1902 2308 2311  
 UP GEOMETRODYNAMICS  
 SPACE-TIME CONTINUUM  
 RT CONTINUOUS  
 DIFFERENTIAL GEOMETRY  
 FIELD THEORY (PHYSICS)  
 INERTIAL REFERENCE SYSTEMS  
 LORENTZ CONTRACTION  
 NONRELATIVISTIC MECHANICS  
 PARADOXES  
 PONDEROMOTIVE FORCES  
 QUANTUM MECHANICS  
 RELATIVISTIC EFFECTS  
 SCHWARZSCHILD METRIC  
 SPACE-TIME FUNCTIONS  
 TENSOR ANALYSIS  
 RELAXATION  
 2308 2401 2404 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CROSS RELAXATION

## RELEASING

MOLECULAR RELAXATION  
 REFRACTORY PERIOD  
 RELAXATION (MECHANICS)  
 RELAXATION (PHYSIOLOGY)  
 RELAXATION METHOD (MATHEMATICS)  
 RELAXATION (MECHANICS)  
 2401 2404  
 NT STRESS RELAXATION  
 RT EQUILIBRIUM  
 #EXPANSION  
 MAGNETIC RELAXATION  
 MOLECULAR RELAXATION  
 NUCLEAR RELAXATION  
 REDUCTION  
 RELAXATION  
 RELAXATION METHOD (MATHEMATICS)  
 RELAXATION TIME  
 RESIDUAL STRESS  
 VISCOELASTICITY  
 VISCOPLASTICITY  
 RELAXATION (PHYSIOLOGY)  
 0408  
 RT COMPRESSIBILITY EFFECTS  
 RECREATION  
 RELAXATION  
 WORK-REST CYCLE  
 RELAXATION METHOD (MATHEMATICS)  
 2308 3203  
 BT APPROXIMATION  
 NUMERICAL ANALYSIS  
 RT METHODOLOGY  
 RELAXATION  
 RELAXATION (MECHANICS)  
 RELAXATION OSCILLATORS  
 0904  
 NT PHANTASTRONS  
 BT #OSCILLATORS  
 RELAXATION TIME  
 2307 2308 3203  
 BT #TIME  
 RT EQUILIBRIUM  
 #EXCITATION  
 MAXWELL BODIES  
 MOLECULAR RELAXATION  
 RELAXATION (MECHANICS)  
 SPIN-LATTICE RELAXATION  
 TIME CONSTANT  
 RELAY  
 0904 0905 0702  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DISCONNECT DEVICES  
 ELECTRIC CONTACTS  
 ELECTRIC RELAYS  
 LOGIC CIRCUITS  
 RADIO RELAY SYSTEMS  
 REPEATERS  
 RELAY 1 SATELLITE  
 0702 0706 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 RELAY SATELLITES  
 #SATELLITES  
 RELAY 2 SATELLITE  
 0702 0706 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 RELAY SATELLITES  
 #SATELLITES  
 RELAY SATELLITES  
 0702 0706 3107  
 NT RELAY 1 SATELLITE  
 RELAY 2 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 COMMUNICATION SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT ADVENT PROJECT  
 THOR DELTA LAUNCH VEHICLE  
 TRANSOCENIC COMMUNICATION  
 RELEASING  
 3407  
 RT DECOUPLING  
 DISCHARGE  
 DISPERSING  
 DUMPING  
 EJECTION  
 EMISSION  
 EMPTYING  
 MATERIALS HANDLING  
 RELIEVING



# RELIABILITY

\*SCATTERING  
 SPILLING  
 UNLOADING  
 VENTING  
 RELIABILITY  
 1505 3408  
 UP SYSTEM LIFE  
 RT AIRCRAFT RELIABILITY  
 CIRCUIT RELIABILITY  
 COMPONENT RELIABILITY  
 SPACECRAFT RELIABILITY  
 STRUCTURAL RELIABILITY  
 RT ACCEPTABILITY  
 ACCURACY  
 ALLOWANCES  
 ASSURANCE  
 CENSORED DATA (MATHEMATICS)  
 CONFIDENCE  
 CONFIDENCE LIMITS  
 CONSISTENCY  
 CUMULATIVE DAMAGE  
 DESIGN  
 DOWNTIME  
 DURABILITY  
 \*DYNAMIC CHARACTERISTICS  
 ERRORS  
 ESTIMATES  
 EXPECTATION  
 FAILURE ANALYSIS  
 \*FORECASTING  
 MAINTAINABILITY  
 MAINTENANCE  
 MAXIMUM LIKELIHOOD ESTIMATES  
 \*MECHANICAL PROPERTIES  
 MISSILE DESIGN  
 MTBF  
 \*NONDESTRUCTIVE TESTS  
 PERFORMANCE  
 PERFORMANCE PREDICTION  
 PRECISION  
 PRELAUNCH PROBLEMS  
 PROBABILITY THEORY  
 PRODUCT DEVELOPMENT  
 PRODUCTION MANAGEMENT  
 PRODUCTIVITY  
 QUALITY  
 QUALITY CONTROL  
 REDUNDANCY  
 REDUNDANT COMPONENTS  
 RELIABILITY ANALYSIS  
 RELIABILITY ENGINEERING  
 RISK  
 SAFETY FACTORS  
 SAMPLING  
 SPECIFICATIONS  
 \*STABILITY  
 STANDARDS  
 \*STATISTICAL ANALYSIS  
 STATISTICAL DISTRIBUTIONS  
 STATISTICAL TESTS  
 STATISTICS  
 SYSTEM EFFECTIVENESS  
 SYSTEMS COMPATIBILITY  
 SYSTEMS ENGINEERING  
 TESTS  
 TOLERANCES (MECHANICS)  
 VALIDITY  
 VARIABILITY  
 VULNERABILITY  
 RELIABILITY ANALYSIS  
 1505 3408  
 RT ANALYZING  
 PERFORMANCE PREDICTION  
 RELIABILITY  
 RELIABILITY ENGINEERING  
 RELIABILITY CONTROL  
 USE QUALITY CONTROL  
 RELIABILITY ENGINEERING  
 RELIABILITY ENGINEERING  
 1505 1905 3404  
 UP RELIABILITY CONTROL  
 RT COMPLEX SYSTEMS  
 ENGINEERING  
 PERFORMANCE PREDICTION  
 QUALITY CONTROL  
 RELIABILITY  
 RELIABILITY ANALYSIS  
 SYSTEM EFFECTIVENESS  
 SYSTEMS COMPATIBILITY  
 SYSTEMS ENGINEERING  
 VALUE ENGINEERING

RELIEF MAPS  
 1303 1305  
 BT #MAPS  
 RT PHOTOGRAMMETRY  
 TOPOGRAPHY  
 RELIEF VALVES  
 1504  
 UP PRESSURE RELIEF VALVES  
 RT AUTOMATIC CONTROL VALVES  
 #REGULATORS  
 #VALVES  
 RT #AUTOMATIC CONTROL  
 BYPASSES  
 FUEL TANK PRESSURIZATION  
 FUEL VALVES  
 GAS VALVES  
 HYDRAULIC EQUIPMENT  
 PRESSURE REGULATORS  
 REACTOR SAFETY  
 VENTING  
 VENTS  
 RELIEVING  
 3407  
 RT DISCHARGE  
 EXHAUSTING  
 PURGING  
 RELEASING  
 RELOCATION  
 1502 2002 2103  
 RT INSTALLING  
 POSITIONING  
 REPLACING  
 RELUCTANCE  
 0408  
 UP RELUCTIVITY  
 RT #MAGNETIC PROPERTIES  
 RT MAGNETIC PERMEABILITY  
 MAGNETORESISTIVITY  
 RELUCTIVITY  
 USE RELUCTANCE  
 REMAGNETIZATION  
 USE MAGNETIZATION  
 REMANENCE  
 2307  
 RT #MAGNETIC PROPERTIES  
 RT FLUX DENSITY  
 PALEOMAGNETISM  
 REMELTING  
 USE MELTING  
 REMODULATION  
 0702 0705 0710  
 RT DEMODULATION  
 INTERMODULATION  
 #MODULATION  
 REMOTE CONSOLES  
 0701 0801  
 BT CONSOLES  
 RT #COMPUTER COMPONENTS  
 COMPUTER GRAPHICS  
 DATA LINKS  
 #DATA PROCESSING EQUIPMENT  
 DATA PROCESSING TERMINALS  
 #DISPLAY DEVICES  
 PLOTTERS  
 READOUT  
 REMOTE CONTROL  
 1002 1201 1410 2102 3110  
 UP ELECTROMAGNETIC CONTROL  
 RT RADIO CONTROL  
 RT AIRCRAFT CONTROL  
 #ATTITUDE CONTROL  
 #AUTOMATIC CONTROL  
 AUTOMATION  
 CASCADE CONTROL  
 CONTROL  
 CONTROL BOARDS  
 #CONTROLLERS  
 DIGITAL COMMAND SYSTEMS  
 #DYNAMIC CHARACTERISTICS  
 ELECTRIC CONTROL  
 ELECTRONIC CONTROL  
 ENGINE CONTROL  
 #FLIGHT CONTROL  
 #GROUND BASED CONTROL  
 #GUIDANCE (MOTION)  
 HYDRAULIC CONTROL  
 INSTRUMENTS  
 KALMAN-SCHMIDT FILTERING  
 MANIPULATORS  
 MANUAL CONTROL  
 MISSILE CONTROL  
 PNEUMATIC CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

REMOTE HANDLING  
 ROCKET ENGINE CONTROL  
 SATELLITE CONTROL  
 SERVOCONTROL  
 SERVOMECHANISMS  
 #SPACECRAFT CONTROL  
 TELEOPERATORS  
 TEMPERATURE CONTROL  
 TURBOJET ENGINE CONTROL  
 VISUAL CONTROL  
 REMOTE HANDLING  
 1002 1201 1410 3404  
 UP TELECHIRICS  
 RT MATERIALS HANDLING  
 RT MANIPULATORS  
 MATERIALS HANDLING  
 REMOTE CONTROL  
 TELEOPERATORS  
 REMOTE SENSORS  
 1409  
 RT DATA ACQUISITION  
 DETECTORS  
 EARTH RESOURCES  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 #MEASURING INSTRUMENTS  
 PROBES  
 SENSORS  
 #TRANSDUCERS  
 REMOVAL  
 3407  
 RT CANCELLATION  
 CARBON DIOXIDE REMOVAL  
 CLEARING  
 DEPLETION  
 DISPOSAL  
 DISSIPATION  
 EJECTION  
 EMPTYING  
 EVACUATING (TRANSPORTATION)  
 EVACUATING (VACUUM)  
 EXHAUSTING  
 EXPULSION  
 EXTRACTION  
 MATERIALS RECOVERY  
 REDUCTION  
 REJECTION  
 SEPARATION  
 UNLOADING  
 WEAR  
 REMS  
 USE RAPID EYE MOVEMENT STATE  
 RENAL CALCULI  
 USE CALCULI  
 RENAL FUNCTION  
 0404 0405  
 RT FUNCTIONS  
 KIDNEYS  
 #RENDEZVOUS  
 3009 3407  
 RT EARTH ORBITAL RENDEZVOUS  
 LUNAR ORBITAL RENDEZVOUS  
 ORBITAL RENDEZVOUS  
 SPACE RENDEZVOUS  
 RT FLIGHT MECHANICS  
 INTERCEPTION  
 ORBITAL MECHANICS  
 RENDEZVOUS GUIDANCE  
 0707 2102 3104 3109  
 BT #GUIDANCE (MOTION)  
 RT COMMAND GUIDANCE  
 HOMING DEVICES  
 INJECTION GUIDANCE  
 MIDCOURSE GUIDANCE  
 ORBITAL RENDEZVOUS  
 RENDEZVOUS SPACECRAFT  
 RENDEZVOUS TRAJECTORIES  
 SATELLITE GUIDANCE  
 SPACECRAFT GUIDANCE  
 TERMINAL GUIDANCE  
 RENDEZVOUS SPACECRAFT  
 2102 3104 3107 3110  
 BT #MANEUVERABLE SPACECRAFT  
 RT COMMAND GUIDANCE  
 FERRY SPACECRAFT  
 #INTERPLANETARY SPACECRAFT  
 #LUNAR SPACECRAFT  
 #MANNED SPACECRAFT  
 #MILITARY SPACECRAFT  
 ORBITAL RENDEZVOUS  
 RECOVERABLE SPACECRAFT  
 RENDEZVOUS GUIDANCE  
 RENDEZVOUS TRAJECTORIES

# NASA THESAURUS (ALPHABETICAL LISTING)

#SATELLITES  
#SPACE CAPSULES  
SPACE STATIONS  
#UNMANNED SPACECRAFT  
RENDEZVOUS TRAJECTORIES  
2102 3006 3009 3110  
BT #TRAJECTORIES  
RT ASCENT TRAJECTORIES  
CIRCUMLUNAR TRAJECTORIES  
EARTH-MOON TRAJECTORIES  
EARTH ORBITAL RENDEZVOUS  
FLIGHT MECHANICS  
INTERPLANETARY TRAJECTORIES  
ORBITAL MECHANICS  
ORBITAL RENDEZVOUS  
RENDEZVOUS GUIDANCE  
RENDEZVOUS SPACECRAFT  
SPACE RENDEZVOUS  
SPACECRAFT DOCKING  
SPACECRAFT TRAJECTORIES  
RENE PROGRAM  
0202 1202 1410 2805 2806 2808 3409  
UF ROCKET ENGINE NOZZLE EJECTOR  
PROGRAM  
RT EJECTORS  
EXHAUST NOZZLES  
ROCKET NOZZLES  
RENE 41  
1701 3305  
BT #ALLOYS  
CHROMIUM ALLOYS  
COBALT ALLOYS  
HEAT RESISTANT ALLOYS  
MOLYBDENUM ALLOYS  
NICKEL ALLOYS  
#REFRACTORY MATERIALS  
REFRACTORY METAL ALLOYS  
RT WROUGHT ALLOYS  
RENE 63  
1701 3305  
BT #ALLOYS  
CHROMIUM ALLOYS  
COBALT ALLOYS  
HEAT RESISTANT ALLOYS  
MOLYBDENUM ALLOYS  
NICKEL ALLOYS  
#REFRACTORY MATERIALS  
REFRACTORY METAL ALLOYS  
RT WROUGHT ALLOYS  
RENE 77  
1701 3305  
BT #ALLOYS  
CHROMIUM ALLOYS  
COBALT ALLOYS  
HEAT RESISTANT ALLOYS  
MOLYBDENUM ALLOYS  
NICKEL ALLOYS  
#REFRACTORY MATERIALS  
REFRACTORY METAL ALLOYS  
RT WROUGHT ALLOYS  
REPAIRING  
USE MAINTENANCE  
REPEATERS  
0701 0706 0707 0905 2309 3107  
UF INTERPOLATORS  
BT #TRANSMITTERS  
RT #AMPLIFIERS  
RADAR RECEIVERS  
RECEIVERS  
RELAY  
TRANSLATORS  
REPETITION  
0703  
RT COUNTING  
PATTERN RECOGNITION  
REDUNDANCY ENCODING  
REPLACING  
1505 3407  
RT INSTALLING  
MAINTENANCE  
RELOCATION  
REPLENISHMENT  
SUBSTITUTES  
REPLENISHMENT  
3406 3407  
RT FILLING  
INPUT  
LOADING  
REFILLING  
REFUELING  
REPLACING

REPLICAS  
1407 1704  
RT ELECTRON MICROSCOPES  
METALLOGRAPHY  
#MODELS  
REPRODUCTION (COPYING)  
REPORT GENERATORS  
0802  
RT #COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
GENERATORS  
REPORTS  
3405  
NT WAGE SURVEYS  
RT DISCUSSION  
DOCUMENTATION  
#DOCUMENTS  
INFORMATION DISSEMINATION  
PAPERS  
PROCEEDINGS  
RECORDS  
SUMMARIES  
SUPPLEMENTS  
TECHNOLOGY TRANSFER  
REPRESENTATIONS  
1902 3406 3407  
RT DESCRIPTIONS  
DRAWINGS  
GRAPHS (CHARTS)  
IMAGES  
PHOTOGRAPHS  
#SIGNATURES  
REPRODUCTION  
0404 0702 1407 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CELL DIVISION  
FERTILIZATION  
MITOSIS  
POLLEN  
RECORDS  
REPRODUCTION (COPYING)  
REPRODUCTIVE SYSTEMS  
SPORES  
REPRODUCTION (COPYING)  
1407 3405  
UF DUPLICATING  
NT XEROGRAPHY  
BT #IMAGERY  
RT BLUEPRINTS  
DOCUMENT STORAGE  
DRAWINGS  
ENGINEERING DRAWINGS  
LITHOGRAPHY  
MICROFILMS  
PHOTOGRAPHIC PROCESSING EQUIPMENT  
#PHOTOGRAPHY  
PRINTING  
REPLICAS  
REPRODUCTION  
STENCIL PROCESSES  
REPRODUCTIVE SYSTEMS  
0404 0405  
NT OVARIES  
TESTES  
UTERUS  
RT CHROMOSOMES  
FERTILITY  
FETUSES  
REPRODUCTION  
REPTILES  
0402  
NT LIZARDS  
SNAKES  
TURTLES  
BT #ANIMALS  
MAMMALS  
POIKILOthermia  
VERTEBRATES  
REPUBLIC AIRCRAFT  
0207  
UF REPUBLIC MILITARY AIRCRAFT  
NT F-84 AIRCRAFT  
F-105 AIRCRAFT  
RT AIRCRAFT  
REPUBLIC MILITARY AIRCRAFT  
USE REPUBLIC AIRCRAFT  
REPULSION  
USE FORCE  
REQUIREMENTS  
3406

## RESEARCH AND DEVELOPMENT

RT SPECIFICATIONS  
RESCUE OPERATIONS  
0502 1102  
RT OPERATIONS  
SPACECRAFT RECOVERY  
#RESEARCH  
3404 3406 3409 1106  
NT CRITICAL PATH METHOD  
DYNAMIC PROGRAMMING  
GAME THEORY  
HIGH TEMPERATURE RESEARCH  
LINEAR PROGRAMMING  
LOW DENSITY RESEARCH  
MARKET RESEARCH  
MINIMAL TECHNIQUE  
NONLINEAR PROGRAMMING  
NUCLEAR RESEARCH  
OPERATIONS RESEARCH  
SADDLE POINTS (GAME THEORY)  
RT DESIGN  
#EXPLORATION  
INTERSERVICE DATA EXCHANGE PROGRAM  
#INVESTIGATION  
RESEARCH PROJECTS  
RESEARCH AIRCRAFT  
0201 3404  
UF ORNITHOPTER AIRCRAFT  
NT AVIAN 2/180 AUTOGIRO  
AVRO 707 AIRCRAFT  
B-70 AIRCRAFT  
BREGUET 940 AIRCRAFT  
D-558 AIRCRAFT  
DH 108 AIRCRAFT  
DO-29 AIRCRAFT  
FD 2 AIRCRAFT  
FIREBEE 2 TARGET DRONE AIRCRAFT  
H-126 AIRCRAFT  
H-17 HELICOPTER  
HP-115 AIRCRAFT  
NORD 1500 AIRCRAFT  
P-1052 AIRCRAFT  
SC-1 AIRCRAFT  
U-2 AIRCRAFT  
VZ-2 AIRCRAFT  
VZ-3 AIRCRAFT  
VZ-8 AIRCRAFT  
WA-116 AUTOGIRO  
X-21A AIRCRAFT  
X-22A AIRCRAFT  
X-1 AIRCRAFT  
X-2 AIRCRAFT  
X-3 AIRCRAFT  
X-5 AIRCRAFT  
X-13 AIRCRAFT  
X-14 AIRCRAFT  
X-15 AIRCRAFT  
X-19 AIRCRAFT  
X-20 AIRCRAFT  
X-21 AIRCRAFT  
X-22 AIRCRAFT  
X-24 AIRCRAFT  
XH-51 HELICOPTER  
XV-8A AIRCRAFT  
XV-9A AIRCRAFT  
XV-11A AIRCRAFT  
XV-4 AIRCRAFT  
XV-5 AIRCRAFT  
RT AEROSPACEPLANES  
AIRCRAFT  
ASTROPLANE  
DRONE AIRCRAFT  
PAN IN WING AIRCRAFT  
FLIGHT TEST VEHICLES  
FLYING PLATFORMS  
GROUND EFFECT MACHINES  
HOVERCRAFT GROUND EFFECT MACHINES  
HYPERSONIC AIRCRAFT  
#JET AIRCRAFT  
MILITARY AIRCRAFT  
NUCLEAR PROPELLED AIRCRAFT  
ROCKET PLANES  
SUBMERSIBLE AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TAILLESS AIRCRAFT  
TANDEM WING AIRCRAFT  
TEST VEHICLES  
TILT WING AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
WINGED VEHICLES  
RESEARCH AND DEVELOPMENT  
3404 3406 3409

# RESEARCH FACILITIES

RT DESIGN  
 #INVESTIGATION  
 MANAGEMENT PLANNING  
 OPERATIONS RESEARCH  
 #PROGRAMS  
 PROJECT MANAGEMENT  
 RESEARCH PROJECTS  
 SYSTEMS ENGINEERING  
 TECHNOLOGY UTILIZATION  
 WEAPONS DEVELOPMENT  
 RESEARCH FACILITIES  
 1106 1108 3404  
 RT FACILITIES  
 #LABORATORIES  
 RESEARCH PROJECTS  
 SPACE LABORATORIES  
 #TEST FACILITIES  
 RESEARCH MANAGEMENT  
 3404 3405 3406 3409  
 BT #MANAGEMENT  
 RT ALLOCATIONS  
 BUDGETS  
 ENGINEERING MANAGEMENT  
 GOALS  
 INDUSTRIAL MANAGEMENT  
 MANPOWER  
 OPERATIONS RESEARCH  
 #PERSONNEL  
 PRIORITIES  
 RESEARCH PROJECTS  
 1108 3404 3409  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FRENCH SPACE PROGRAMS  
 #MANAGEMENT  
 NASA PROGRAMS  
 #PROGRAMS  
 PROJECT MANAGEMENT  
 PROJECTS  
 #RESEARCH  
 RESEARCH AND DEVELOPMENT  
 RESEARCH FACILITIES  
 SPACE PROGRAMS  
 RESEARCH TORPEDO CONFIGURATIONS  
 USE TORPEDOES  
 RESEARCH VEHICLES  
 3004 3007 3110 3404  
 (VEHICLES DESIGNED TO BE SUBJECTS OF  
 RESEARCH - - NOT RESEARCH EQUIPMENT  
 CONTAINERS)  
 RT BOATS  
 FLIGHT VEHICLES  
 LUNAR ROVING VEHICLES  
 MILITARY VEHICLES  
 SPACE LABORATORIES  
 SPACECRAFT  
 UNDERWATER VEHICLES  
 VEHICLES  
 #WATER VEHICLES  
 RESERPINE  
 0403 0405 0408  
 BT ALKALOIDS  
 #DRUGS  
 #HETEROCYCLIC COMPOUNDS  
 #NITROGEN COMPOUNDS  
 PENTOBARBITAL SODIUM  
 RT ANTIHYPERTENSIVE AGENTS  
 RESERBERS  
 1502 1703 1805 3402 3404  
 RT ABUNDANCE  
 AVAILABILITY  
 CONTINGENCY  
 CRUDE OIL  
 ECONOMIC FACTORS  
 ESTIMATES  
 ESTIMATING  
 EVALUATION  
 EXPLOITATION  
 #EXPLORATION  
 #PORECASTING  
 INVENTORIES  
 INVENTORY CONTROLS  
 MATERIALS  
 MINERAL DEPOSITS  
 MINES (EXCAVATIONS)  
 PRODUCTION  
 #RESOURCES  
 STOCKPILING  
 STORAGE  
 RESERVOIRS  
 0505

(FOR SURFACE WATER STORAGE--NOT OIL OR  
 GAS POOLS)  
 RT BASINS (CONTAINERS)  
 DAMS  
 EVAPORATION  
 LAKES  
 PONDS  
 RIVERS  
 STREAMS  
 RESIDUAL GAS  
 1203 1506  
 BT #GASES  
 RT GETTERS  
 HIGH VACUUM  
 OUTGASSING  
 PARTIAL PRESSURE  
 ULTRAHIGH VACUUM  
 #VACUUM APPARATUS  
 VACUUM TUBES  
 RESIDUAL STRESS  
 1504 3203  
 UP INTERNAL STRESS  
 BT #STRESSES  
 RT CREEP PROPERTIES  
 #MACHINING  
 RELAXATION (MECHANICS)  
 STRAIN HARDENING  
 STRESS RELAXATION  
 STRESS RELIEVING  
 TEMPERATURE INVERSIONS  
 RESIDUES  
 0505 0601 0603  
 RT ASHES  
 #WASTES  
 RESILIENCE  
 3203  
 BT #MECHANICAL PROPERTIES  
 RT COMPRESSIVE STRENGTH  
 ELASTIC PROPERTIES  
 SHEAR PROPERTIES  
 SPRINGS (ELASTIC)  
 TENSILE STRENGTH  
 RESIN BONDING  
 0602 0603 1808  
 BT #BONDING  
 RT ADHESIVE BONDING  
 METAL BONDING  
 METAL-METAL BONDING  
 #RESINS  
 1809 1810  
 RT ACRYLIC RESINS  
 ADDITION RESINS  
 ALKYL RESINS  
 EPOXY RESINS  
 PURAN RESINS  
 ION EXCHANGE RESINS  
 MICARTA  
 NYLON (TRADEMARK)  
 PHENOLIC RESINS  
 POLYAMIDE RESINS  
 POLYESTER RESINS  
 POLYETHER RESINS  
 POLYIMIDE RESINS  
 POLYMETHYL METHACRYLATE  
 POLYURETHANE RESINS  
 SILICONE RESINS  
 SYNTHETIC RESINS  
 THERMOPLASTIC RESINS  
 THERMOSETTING RESINS  
 VINYL COPOLYMERS  
 RT ACRYLATES  
 BAKELITE (TRADEMARK)  
 DELRIN (TRADEMARK)  
 FILLERS  
 LEXAN (TRADEMARK)  
 MELAMINE  
 PARAPLASTS  
 PATTERNS  
 PHLOROGLUCINOL  
 PLASTISOLS  
 TEFLON (TRADEMARK)  
 RESISTANCE  
 0101 1001 1202 2304 2311 3303  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP CONDUCTANCE  
 RESISTANCE COEFFICIENTS  
 RT ABRASION RESISTANCE  
 ACCELERATION TOLERANCE  
 #ACOUSTIC PROPERTIES  
 AERODYNAMIC DRAG

# NASA THESAURUS (ALPHABETICAL LISTING)

#CHEMICAL PROPERTIES  
 CONSTRICTIONS  
 CONTACT RESISTANCE  
 CORROSION RESISTANCE  
 CRACK PROPAGATION  
 CREEP STRENGTH  
 DAMPING  
 DIFFUSIVITY  
 DURABILITY  
 #ELECTRICAL PROPERTIES  
 ELECTRICAL RESISTANCE  
 ELECTRICAL RESISTIVITY  
 FLAMMABILITY  
 FLOW RESISTANCE  
 FRACTURE STRENGTH  
 FUSIBILITY  
 IMMUNITY  
 IMPACT STRENGTH  
 #IMPEDANCE  
 KAPITZA RESISTANCE  
 LIFE (DURABILITY)  
 MAGNETORESISTIVITY  
 OXIDATION RESISTANCE  
 PERMEABILITY  
 PREVENTION  
 #PROTECTION  
 QUALITY  
 RADIATION TOLERANCE  
 RETARDING  
 #SENSITIVITY  
 SHOCK RESISTANCE  
 SKIN RESISTANCE  
 #STABILITY  
 THERMAL RESISTANCE  
 TOLERANCES (PHYSIOLOGY)  
 VULNERABILITY  
 WAVE RESISTANCE  
 RESISTANCE COEFFICIENTS  
 USE #COEFFICIENTS  
 RESISTANCE  
 RESISTANCE HEATING  
 0905 1002 3303  
 UP JOULE HEATING  
 RT #HEATING  
 RT ARC HEATING  
 ELECTROSLAG REFINING  
 GAS HEATING  
 RESISTANCE THERMOMETERS  
 1408 3303  
 BT #MEASURING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 THERMOMETERS  
 RT BOLOMETERS  
 OHMMETERS  
 TEMPERATURE MEASUREMENT  
 THERMOCOUPLE PYROMETERS  
 RESISTIVITY  
 USE ELECTRICAL RESISTIVITY  
 RESISTOJET ENGINES  
 0202 2803 2805 2808 3110  
 UP RESISTOJETS  
 RT ARC JET ENGINES  
 PLASMA ENGINES  
 PULSED JET ENGINES  
 RESISTOJETS  
 USE RESISTOJET ENGINES  
 RESISTORS  
 0902 0904 0905 1002  
 UP TUNNEL RESISTORS  
 RT POTENTIOMETERS (RESISTORS)  
 PRINTED RESISTORS  
 THERMISTORS  
 BT #ATTENUATORS  
 RT BALLASTS (IMPEDANCES)  
 ELECTRIC CONDUCTORS  
 #ELECTRIC FILTERS  
 ELECTRIC REACTORS  
 FILAMENTS  
 PHOTOCONDUCTORS  
 SEMICONDUCTORS (MATERIALS)  
 SOLID STATE DEVICES  
 VARISTORS  
 #RESOLUTION  
 1406 1407 1409 1412 1413 3406 3407  
 UP RESOLVING POWER  
 RT ANGULAR RESOLUTION  
 HIGH RESOLUTION  
 RADAR RESOLUTION  
 SPECTRAL RESOLUTION  
 RT ACCURACY  
 BLURRING  
 CHARACTER RECOGNITION

# NASA THESAURUS (ALPHABETICAL LISTING)

CONTRAST  
 DEFINITION  
 #DYNAMIC CHARACTERISTICS  
 ERRORS  
 FOCI  
 IMAGE CONTRAST  
 IMAGE ENHANCEMENT  
 LEGIBILITY  
 LOCI  
 OPTICS  
 #PERCEPTION  
 POWER  
 PRECISION  
 #SENSITIVITY  
 SPATIAL FILTERING  
 STARK EFFECT  
 THRESHOLDS  
 TOLERANCES (MECHANICS)  
 VISIBILITY  
 VISION  
 RESOLUTION CELL  
 0802 1902  
 RT CELLS  
 RESOLVENTS  
 USE PROBLEM SOLVING  
 RESOLVERS  
 2308 2311  
 BT ANALOG COMPUTERS  
 TRANSFORMERS  
 RESOLVING POWER  
 USE #RESOLUTION  
 #RESONANCE  
 0710 1003 2301 2306 2308 2311 2403  
 2502 3408  
 UF GROUND RESONANCE  
 NT BARYON RESONANCES  
 CYCLOTRON RESONANCE  
 ELECTRON PARAMAGNETIC RESONANCE  
 FERROMAGNETIC RESONANCE  
 MAGNETIC RESONANCE  
 MAGNETOSONIC RESONANCE  
 MESON RESONANCES  
 MICROWAVE RESONANCE  
 NUCLEAR MAGNETIC RESONANCE  
 NUCLEAR QUADRUPOLE RESONANCE  
 OPTICAL RESONANCE  
 PARAMAGNETIC RESONANCE  
 PLASMA RESONANCE  
 PROTON MAGNETIC RESONANCE  
 PROTON RESONANCE  
 RESONANT VIBRATION  
 SPIN RESONANCE  
 RT FOSTER THEORY  
 #OSCILLATIONS  
 RESONANT FREQUENCIES  
 SYNTONY  
 TUNING  
 #VIBRATION  
 RESONANCE CHARGE EXCHANGE  
 1002 2304 2403  
 BT CHARGE EXCHANGE  
 #EXCHANGING  
 RT SPIN EXCHANGE  
 RESONANCE PROBES  
 1302 2501 2502 3108  
 BT #MEASURING INSTRUMENTS  
 RT IMPEDANCE PROBES  
 MAGNETIC PROBES  
 MICROWAVE PLASMA PROBES  
 PLASMA DIAGNOSTICS  
 PLASMA RESONANCE  
 RESONANCE TESTING  
 TUNERS  
 RESONANCE SCATTERING  
 2311 2402 2403 2502  
 (INTERACTION WITH THE INTERIOR OF THE  
 NUCLEUS--EXCLUDES POTENTIAL SCATTERING)  
 BT #NUCLEAR REACTIONS  
 NUCLEAR SCATTERING  
 #SCATTERING  
 RT MOSSBAUER EFFECT  
 NEUTRON SCATTERING  
 RESONANCE TESTING  
 0905 1406 3404  
 RT DAMPING TESTS  
 ELASTIC DAMPING  
 ELECTRONIC EQUIPMENT TESTS  
 FATIGUE TESTS  
 RESONANCE PROBES  
 RESONANT FREQUENCIES  
 STABILITY TESTS  
 STATIC TESTS

STRUCTURAL STABILITY  
 TESTS  
 #VIBRATION TESTS  
 VISCOUS DAMPING  
 RESONANT CAVITIES  
 USE CAVITY RESONATORS  
 RESONANT FREQUENCIES  
 2304 2307 2402  
 UF NATURAL FREQUENCIES  
 BT #FREQUENCIES  
 RT ANTINODES  
 BANDWIDTH  
 BEAT FREQUENCIES  
 BORDONI PEAKS  
 CAVITY RESONATORS  
 CRITICAL FREQUENCIES  
 CRITICAL VELOCITY  
 DAMPING  
 #DYNAMIC CHARACTERISTICS  
 DYNAMICS  
 ELECTROMAGNETIC ABSORPTION  
 HARMONICS  
 #IMPEDANCE  
 MOSSBAUER EFFECT  
 NODES (STANDING WAVES)  
 #OSCILLATORS  
 #RESONANCE  
 RESONANCE TESTING  
 RESONANT VIBRATION  
 RESONATORS  
 STANDING WAVES  
 TRANSIENT RESPONSE  
 TUNERS  
 TUNING  
 RESONANT VIBRATION  
 2308 2403 3301  
 UF MECHANICAL RESONANCE  
 BT #RESONANCE  
 #VIBRATION  
 RT DAMPING  
 DYNAMIC STABILITY  
 DYNAMICS  
 FLAPPING  
 FLUTTER  
 MECHANICAL OSCILLATORS  
 #OSCILLATIONS  
 Q FACTORS  
 RESONANT FREQUENCIES  
 STABLE OSCILLATIONS  
 STRUCTURAL VIBRATION  
 UNDAMPED OSCILLATIONS  
 RESONATORS  
 0903 0904 0905 1504 1601 2301 2311  
 NT CAVITY RESONATORS  
 MULTIMODE RESONATORS  
 RT DELTA ANTENNAS  
 #ELECTRON TUBES  
 FREQUENCY STANDARDS  
 LASERS  
 MAGNETRONS  
 MASERS  
 #OSCILLATORS  
 RESONANT FREQUENCIES  
 SELF EXCITATION  
 TUNING  
 TUNING FORK GYROSCOPES  
 RESOURCE ALLOCATION  
 3401 3402 3404 3406 3409  
 BT ALLOCATIONS  
 RT DISTRIBUTING  
 ENGINEERING MANAGEMENT  
 LOGISTICS  
 PRIORITIES  
 PRODUCTS  
 #RESOURCES  
 1306 3402 3404  
 NT EARTH RESOURCES  
 EXTRATERRESTRIAL RESOURCES  
 RANGE RESOURCES  
 RT ABUNDANCE  
 AVAILABILITY  
 CONSULTING  
 DEPLETION  
 ECONOMIC FACTORS  
 ECONOMICS  
 ENGINEERING MANAGEMENT  
 INVENTORY MANAGEMENT  
 LOGISTICS  
 LOGISTICS MANAGEMENT  
 MATERIALS  
 #PERSONNEL

## RESPONSE BIAS

PERSONNEL DEVELOPMENT  
 PRODUCTION MANAGEMENT  
 RESERVES  
 RESOURCE ALLOCATION  
 URBAN DEVELOPMENT  
 RESPIRATION  
 0404 0408 0501 0504 3407  
 UF APNEA  
 INHALATION  
 NT HIGH ALTITUDE BREATHING  
 LIQUID BREATHING  
 PRESSURE BREATHING  
 RT ASPHYXIA  
 BREATHING  
 EXPIRATION  
 EXPIRED AIR  
 #METABOLISM  
 OXYGEN METABOLISM  
 PHOTOSYNTHESIS  
 RESPIRATORS  
 RESPIRATORY SYSTEM  
 RESUSCITATION  
 SINUSES  
 VALSALVA EXERCISE  
 RESPIRATORS  
 0405 0501  
 BT #MEDICAL EQUIPMENT  
 RT BREATHING APPARATUS  
 EMERGENCY BREATHING TECHNIQUES  
 RESPIRATION  
 RESUSCITATION  
 THERAPY  
 RESPIRATORY DISEASES  
 0405  
 NT AEROSINUSITIS  
 ASTHMA  
 EMPHYSEMA  
 INFLUENZA  
 PNEUMONIA  
 TUBERCULOSIS  
 BT #DISEASES  
 RT BERYLLIUM POISONING  
 CONGESTION  
 LUNG MORPHOLOGY  
 PULMONARY LESIONS  
 RESPIRATORY SYSTEM  
 RESPIRATORY IMPEDANCE  
 0405 0408  
 BT #IMPEDANCE  
 RESPIRATORY PHYSIOLOGY  
 0404 0405 0408  
 BT PHYSIOLOGY  
 RESPIRATORY RATE  
 0405 0408  
 NT DYSPNEA  
 HYPOVENTILATION  
 TACHYPNEA  
 BT #RATES (PER TIME)  
 RT HYPERPNEA  
 SPIROMETERS  
 RESPIRATORY REFLEXES  
 0405 0408  
 NT COUGH  
 SNEEZING  
 BT #REFLEXES  
 RT BREATHING  
 RESPIRATORY SYSTEM  
 0405 0408  
 NT BRONCHI  
 BRONCHIAL TUBE  
 DIAPHRAGM (ANATOMY)  
 LUNGS  
 NOSE (ANATOMY)  
 PHARYNX  
 TRACHEA  
 BT #ANATOMY  
 RT EVAPORATION  
 HOMEOSTASIS  
 PULMONARY CIRCULATION  
 RESPIRATION  
 RESPIRATORY DISEASES  
 RESPIROMETERS  
 0401 0405 0501  
 BT #MEASURING INSTRUMENTS  
 RT BIOINSTRUMENTATION  
 EXHALATION  
 RESPONDERS  
 USE TRANSPONDERS  
 RESPONSE BIAS  
 0408 0802 1003 1409  
 BT BIAS  
 RT DYNAMIC RESPONSE

# RESPONSE TIME (COMPUTERS)

ERRORS  
 TIME RESPONSE  
 TRANSIENT RESPONSE  
 RESPONSE TIME (COMPUTERS)  
 0802 0803  
 RT #TIME  
 RT COMPUTER PROGRAMMING  
 #DATA PROCESSING  
 #RESPONSES  
 0402 0408 0410 0502  
 RT DYNAMIC RESPONSE  
 FREQUENCY RESPONSE  
 GALVANIC SKIN RESPONSE  
 HEMODYNAMIC RESPONSES  
 MODAL RESPONSE  
 PHYSIOLOGICAL RESPONSES  
 TIME RESPONSE  
 TRANSIENT RESPONSE  
 RT CHRONAXY  
 #LEARNING  
 REFRACTORY PERIOD  
 THRESHOLDS  
 TIME LAG  
 REST  
 0408 0504 0506  
 RT BED REST  
 RT PRONE POSITION  
 RECREATION  
 SITTING POSITION  
 SLEEP  
 SUPINE POSITION  
 RESTARTABLE ROCKET ENGINES  
 2807 2808 3106  
 RT #ENGINES  
 ROCKET ENGINES  
 RT DUCTED ROCKET ENGINES  
 ELECTRIC ROCKET ENGINES  
 ELECTROSTATIC ENGINES  
 ELECTROTHERMAL ENGINES  
 HYBRID PROPELLANT ROCKET ENGINES  
 ION ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 NUCLEAR ROCKET ENGINES  
 RETROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 SUSTAINER ROCKET ENGINES  
 TURBOCKET ENGINES  
 VERNIER ENGINES  
 RESTORATION  
 3404 3407  
 RT ADDITION  
 #RECONSTRUCTION  
 RESTRAINTS  
 USE CONSTRAINTS  
 RESTRICTIONS  
 USE CONSTRUCTIONS  
 RESULTS  
 1902 2308  
 RT VECTOR ANALYSIS  
 RESUSCITATION  
 0405  
 UP ARTIFICIAL RESPIRATION  
 RT EMERGENCY BREATHING TECHNIQUES  
 FIRST AID  
 LIQUID BREATHING  
 RESPIRATION  
 RESPIRATORS  
 RETAINING  
 0202 1101 1104 1504  
 RT CONSTRAINTS  
 CONTAINMENT  
 HOLDING  
 JOINING  
 LOCKING  
 RETENTION  
 SEALING  
 STORAGE  
 RETARDANTS  
 0101 0201 1202 1504 2311  
 RT ACCELERATING AGENTS  
 #ADDITIVES  
 ANTICLING ADDITIVES  
 ANTISHOCK ADDITIVES  
 ANTIOXIDANTS  
 CATALYSTS  
 INHIBITORS  
 NEUTRALIZERS  
 PENETRANTS  
 PRESERVATIVES  
 RETARDERS  
 RETARDING  
 STABILIZERS (AGENTS)

SUPPRESSORS  
 SURFACTANTS  
 WEAR INHIBITORS  
 RETARDERS  
 0101 0201 1202 1504 2311  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT RETARDANTS  
 RETARDERS (DEVICES)  
 RETARDERS (DEVICES)  
 1504  
 RT BLOCKING  
 #BRAKES (FOR ARRESTING MOTION)  
 BRAKING  
 CONSTRUCTIONS  
 RETARDERS  
 RETARDING  
 RETARDING  
 0101 0201 2311 3407  
 UP SUPPRESSION  
 RT #ATTENUATION  
 BLOCKING  
 BRAKING  
 DAMPING  
 DECELERATION  
 FOULING  
 HYSTERESIS  
 PREVENTION  
 REDUCTION  
 RESISTANCE  
 RETARDANTS  
 RETARDERS (DEVICES)  
 STOPPING  
 RETENTION  
 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT RETAINING  
 RETENTION (PSYCHOLOGY)  
 RETENTION (PSYCHOLOGY)  
 0410 0502  
 RT #LEARNING  
 MEMORY  
 RETENTION  
 RETICLES  
 1411 1412 2310  
 RT #OPTICAL EQUIPMENT  
 RETICULOCYTES  
 0404 0406  
 RT #ANATOMY  
 BLOOD  
 #BODY FLUIDS  
 CARDIOVASCULAR SYSTEM  
 #CELLS (BIOLOGY)  
 ERYTHROCYTES  
 RT HEMATOLOGY  
 HEMOGLOBIN  
 HEMOLYSIS  
 HEMORRHAGES  
 RETINA  
 0405 0408  
 RT FOVEA  
 RT #ANATOMY  
 EYE (ANATOMY)  
 SENSE ORGANS  
 RT ELECTRORETINOGRAPHY  
 PHOSPHENE  
 PHOTORECEPTORS  
 VISION  
 VISUAL FIELDS  
 RETINAL ADAPTATION  
 0405 0408  
 RT DARK ADAPTATION  
 LIGHT ADAPTATION  
 RT #ADAPTATION  
 RT #PERCEPTION  
 VISIBILITY  
 VISION  
 RETINAL IMAGES  
 0405 0408  
 RT IMAGES  
 RETINENE  
 0403 0405 1808  
 UP VITAMIN A  
 RT #HETEROCYCLIC COMPOUNDS  
 VITAMINS  
 RT ALDEHYDES  
 CAROTENE  
 RETIREMENT  
 0408 3402

# NASA THESAURUS (ALPHABETICAL LISTING)

RT EMPLOYEE RELATIONS  
 #INDUSTRIES  
 #PERSONNEL  
 SOCIOLOGY  
 RETORC (TORPEDOES)  
 USE TORPEDOES  
 RETRACTABLE EQUIPMENT  
 0203 1504  
 UP RETRACTABLE LANDING GEAR  
 RT AERODYNAMIC BRAKES  
 LANDING GEAR  
 REFUELING  
 RETRACTABLE LANDING GEAR  
 USE LANDING GEAR  
 RETRACTABLE EQUIPMENT  
 RETRIEVAL  
 0802 0803 3405  
 RT DATA RETRIEVAL  
 INFORMATION RETRIEVAL  
 RT RECOVERY  
 SEARCHING  
 RETROACTION  
 USE RETROTHRUST  
 RETROFIRING  
 2807 2808 3105 3301  
 UP RETROSEQUENCING  
 RT #FIRING (IGNITING)  
 ROCKET FIRING  
 RT DECELERATION  
 RETROCKET ENGINES  
 RETROTHRUST  
 RETROREFLECTION  
 2306 2310 2402  
 RT REFLECTION  
 RT ANTENNA ARRAYS  
 INCIDENT RADIATION  
 REFLECTED WAVES  
 RETROCKET ENGINES  
 2802 2807 2808 3105 3110  
 RT BE-3 ENGINE  
 TE-385 ENGINE  
 RT #ENGINES  
 ROCKET ENGINES  
 RT CONTROL ROCKETS  
 INTERNAL COMBUSTION ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 MAN OPERATED PROPULSION SYSTEMS  
 RESTARTABLE ROCKET ENGINES  
 RETROFIRING  
 RETROTHRUST  
 SOLID PROPELLANT ROCKET ENGINES  
 RETROSEQUENCING  
 USE RETROFIRING  
 SEQUENTIAL CONTROL  
 RETROTHRUST  
 2308 2802 2807 2808 3105  
 UP RETROACTION  
 RT ROCKET THRUST  
 #THRUST  
 RT DECELERATION  
 RETROFIRING  
 RETROCKET ENGINES  
 RETURN BEAM VIDICONS  
 0701 0702 0905 1409  
 RT THERMICON  
 RT CAMERA TUBES  
 #ELECTRON TUBES  
 VIDICONS  
 RT TELEVISION CAMERAS  
 RETURN TO EARTH SPACE FLIGHT  
 3004 3007 3104 3105  
 RT #SPACE FLIGHT  
 RT INTERPLANETARY FLIGHT  
 SPACECRAFT REENTRY  
 REUSABLE LAUNCH VEHICLES  
 3103 3110  
 RT #LAUNCH VEHICLES  
 RT RECOVERABLE LAUNCH VEHICLES  
 ROCKET ENGINES  
 SPACECRAFT LAUNCHING  
 SPACECRAFT RECOVERY  
 REUSABLE SPACECRAFT  
 2808 3001 3110  
 RT AEROSPACEPLANES  
 ASTROPLANE  
 MARS (MANNED REUSABLE SPACECRAFT)  
 SPACE SHUTTLES  
 RT RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 RT FERRY SPACECRAFT  
 #INTERPLANETARY SPACECRAFT  
 LANDING MODULES

# NASA THESAURUS (ALPHABETICAL LISTING)

LUNAR LANDING MODULES  
 #MANNED SPACECRAFT  
 #SOFT LANDING SPACECRAFT  
 #UNMANNED SPACECRAFT  
 REUSE  
 3407  
 BT UTILIZATION  
 RT RECOVERY  
 REVENUE  
 3402 3403  
 RT ALLOCATIONS  
 ASSESSMENTS  
 BUDGETING  
 COSTS  
 INTERNATIONAL TRADE  
 REVERBERATION  
 0710 2301  
 BT #ACOUSTIC PROPERTIES  
 ACOUSTIC SCATTERING  
 #SCATTERING  
 WAVE SCATTERING  
 RT #ECHOES  
 NOISE (SOUND)  
 SOUND WAVES  
 REVERSE TIME  
 USE REACTION TIME  
 REVERSED FLOW  
 0101 1202  
 BT #FLUID FLOW  
 RT BOUNDARY LAYER SEPARATION  
 RECIRCULATIVE FLUID FLOW  
 REVERSING  
 SEPARATED FLOW  
 REVERSING  
 3407  
 RT DIRECTION  
 REVERSED FLOW  
 REVIEWING  
 3405  
 RT DISCUSSION  
 EVALUATION  
 EXAMINATION  
 REVISIONS  
 3405  
 UP ALTERATION  
 MODIFICATION  
 REFINEMENTS  
 RT ADJUSTING  
 CONTRACTS  
 CORRECTION  
 EXTENSIONS  
 #VARIATIONS  
 REVOLUTION (MOTION)  
 USE REVOLVING  
 REVOLVING  
 1403  
 UP REVOLUTION (MOTION)  
 BT #GYRATION  
 RT ANGULAR VELOCITY  
 CENTRIPETAL FORCE  
 ROTATION  
 REWARD (PSYCHOLOGY)  
 3402 3406  
 BT REGENERATORS  
 REYNOLDS EQUATION  
 0101 1201 1202 1902  
 UP REYNOLDS LAW  
 BT #EQUATIONS OF MOTION  
 RT AERODYNAMIC CONFIGURATIONS  
 NAVIER-STOKES EQUATION  
 REYNOLDS NUMBER  
 SCALE MODELS  
 REYNOLDS LAW  
 USE REYNOLDS EQUATION  
 REYNOLDS NUMBER  
 0101 1201 1202 3408  
 UP CRITICAL REYNOLDS NUMBER  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT BOUNDARY LAYER FLOW  
 BOUNDARY LAYER STABILITY  
 BOUNDARY LAYER TRANSITION  
 #FLUID FLOW  
 FROUDE NUMBER  
 GRASHOF NUMBER  
 INVISCID FLOW  
 LAMINAR FLOW  
 PECLET NUMBER  
 PRANDTL NUMBER  
 REYNOLDS EQUATION  
 RICHARDSON NUMBER  
 SCALE EFFECT

TRANSITION POINTS  
 TURBULENT FLOW  
 VISCOUS FLOW  
 RF-1 AIRCRAFT  
 0201 0204 0209  
 UP RHEIN RF-1 AIRCRAFT  
 BT MONOPLANES  
 RHEIN AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 #V/STOL AIRCRAFT  
 RF-4 AIRCRAFT  
 0207 3401  
 USE P-4 AIRCRAFT  
 RF-8 AIRCRAFT  
 USE P-8 AIRCRAFT  
 RH-2 HELICOPTER  
 USE UH-1 HELICOPTER  
 RHEIN AIRCRAFT  
 0201 0204  
 NT RF-1 AIRCRAFT  
 RT AIRCRAFT  
 RHEIN RF-1 AIRCRAFT  
 USE RF-1 AIRCRAFT  
 RHENIUM  
 1703  
 NT RHENIUM ISOTOPIES  
 BT #METALS  
 #REFRACTORY MATERIALS  
 REFRACTORY METALS  
 TRANSITION METALS  
 RHENIUM ALLOYS  
 1701  
 BT #ALLOYS  
 HEAT RESISTANT ALLOYS  
 #REFRACTORY MATERIALS  
 REFRACTORY METAL ALLOYS  
 RHENIUM COMPOUNDS  
 1804  
 RT GROUP 7B COMPOUNDS  
 METAL COMPOUNDS  
 RHENIUM ISOTOPIES  
 1703 2406  
 BT #REFRACTORY MATERIALS  
 REFRACTORY METALS  
 RHENIUM  
 TRANSITION METALS  
 RHEOELECTRICAL SIMULATION  
 1001 1108  
 BT #SIMULATION  
 RT ANALOG CIRCUITS  
 ANALOG SIMULATION  
 BIONICS  
 FLOW DISTRIBUTION  
 RHEOENCEPHALOGRAPHY  
 0405 0408 0501  
 RT BLOOD CIRCULATION  
 BRAIN  
 RHEOGRAPHY  
 USE #RECORDING INSTRUMENTS  
 RHEOMETERS  
 RHEOLOGY  
 1202 2603  
 RT FLOW MEASUREMENT  
 FLOW THEORY  
 FLUIDS  
 LIQUID FLOW  
 MAXWELL FLUIDS  
 NONNEWTONIAN FLUIDS  
 PLASTIC FLOW  
 PLASTIC PROPERTIES  
 VISCOSITY  
 RHEOMETERS  
 0501 0905 1406  
 UP RHEOGRAPHY  
 BT FLOWMETERS  
 #MEASURING INSTRUMENTS  
 RT BLOOD CIRCULATION  
 RHESUS FACTOR  
 0403 0404 0405  
 RT ANTIGENS  
 BLOOD  
 RHEUMATIC DISEASES  
 0404 0405 0408  
 BT #DISEASES  
 RHIZOPUS  
 0409  
 BT FUNGI  
 #PLANTS (BOTANY)  
 RT MOLD  
 RHODE ISLAND  
 1305

# RIBS (SUPPORTS)

BT UNITED STATES OF AMERICA  
 RHODIUM  
 1703  
 NT RHODIUM ISOTOPIES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 TRANSITION METALS  
 RHODIUM ALLOYS  
 1701  
 BT #ALLOYS  
 RHODIUM COMPOUNDS  
 1804  
 BT GROUP 8 COMPOUNDS  
 RHODIUM ISOTOPIES  
 1804  
 UP RHODIUM 102  
 RHODIUM 106  
 BT #CHEMICAL ELEMENTS  
 ISOTOPIES  
 NUCLIDES  
 RHODIUM  
 TRANSITION METALS  
 RHODIUM 102  
 USE RHODIUM ISOTOPIES  
 RHODIUM 106  
 USE RHODIUM ISOTOPIES  
 RHOMBIC ANTENNAS  
 0901  
 BT ANTENNAS  
 #CONDUCTORS  
 DIRECTIONAL ANTENNAS  
 RT ANTENNA DESIGN  
 RADIO ANTENNAS  
 RHOMBOHEDRONS  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYHEDRONS  
 RHYTHM  
 0403 0404 0408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #OSCILLATIONS  
 PERIODIC VARIATIONS  
 RHYTHM (BIOLOGY)  
 RHYTHM (BIOLOGY)  
 0404  
 UP BIOLOGICAL RHYTHM  
 PERIODICITY (BIOLOGY)  
 RT CIRCADIAN RHYTHMS  
 RT ACTIVITY CYCLES (BIOLOGY)  
 ALTERNATIONS  
 #CYCLES  
 RHYTHM  
 RIBBON PARACHUTES  
 0208  
 BT PARACHUTES  
 RT DRAG CHUTES  
 RECOVERY PARACHUTES  
 RIBBONS  
 0202 0208 0508 0605 1101 1703 1805  
 RT CONVEYORS  
 FABRICS  
 #FASTENERS  
 METAL STRIPS  
 STRIP  
 TAPES  
 RIBOFLAVIN  
 0403 0405 1808  
 UP VITAMIN B 02  
 VITAMIN G  
 BT #HETEROCYCLIC COMPOUNDS  
 VITAMINS  
 RIBONUCLEIC ACIDS  
 0403 1808  
 UP RNA  
 BT #ACIDS  
 ADENINES  
 NUCLEIC ACIDS  
 RIBOSE  
 0403 1808  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 MONOSACCHARIDES  
 PENTOSE  
 SUGARS  
 RT NUCLEOSIDES  
 RIBS (SUPPORTS)  
 3202  
 RT LONGERONS  
 REINFORCEMENT (STRUCTURES)

# **RICCATI EQUATION**

REINFORCEMENT RINGS  
STIFFENING  
WEBS (SUPPORTS)  
**RICCATI EQUATION**  
1902  
RT DIFFERENTIAL EQUATIONS  
**RICE**  
0409 0505  
BT GRAINS (FOOD)  
**RICHARDS THEOREM**  
1902  
BT #THEOREMS  
RT NETWORK SYNTHESIS  
SIGNAL FLOW GRAPHS  
**RICHARDSON-DUSHMAN EQUATION**  
USE TEMPERATURE EFFECTS  
THERMIONIC EMISSION  
**RICHARDSON NUMBER**  
0101 1202  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
RT AERODYNAMIC STABILITY  
REYNOLDS NUMBER  
SHEAR FLOW  
**RIDGES**  
0102 0402 1305 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BUCKLING  
CORRUGATING  
MOUNTAINS  
PROTUBERANCES  
WRINKLING  
**RIEMANN INTEGRAL**  
USE MEASURE AND INTEGRATION  
**RIEMANN MANIFOLD**  
1902  
UP RIEMANN SPACE  
BT DIFFERENTIAL GEOMETRY  
#GEOMETRY  
RT EUCLIDEAN GEOMETRY  
**RIEMANN PROBLEM**  
USE CAUCHY PROBLEM  
**RIEMANN SPACE**  
USE RIEMANN MANIFOLD  
**RIEMANN WAVES**  
1902 2311  
BT #ELASTIC WAVES  
SHOCK WAVES  
RT BLAST LOADS  
DIFFERENTIAL EQUATIONS  
DYNAMIC PRESSURE  
#EXPLOSIONS  
HYPERBOLIC FUNCTIONS  
**RIESZ THEOREM**  
1902  
BT #THEOREMS  
RT DIFFERENTIAL EQUATIONS  
HYPERBOLIC FUNCTIONS  
**RIFLES**  
3302 3401  
BT GUNS (ORDNANCE)  
#WEAPONS  
RT ARTILLERY  
**RIFT (REACTOR IN FLIGHT TEST)**  
2202 2204 3409  
UP REACTOR IN FLIGHT TEST PROGRAM  
RT SATURN PROJECT  
**RIGGING**  
0202 1102 1103 1104 1504 3102  
RT ASSEMBLING  
CONSTRUCTION  
EQUIPMENT  
MATERIALS HANDLING  
SHROUDS  
**RIGID BODIES**  
USE RIGID STRUCTURES  
**RIGID MOUNTING**  
0101 0102 0104 3202  
BT MOUNTING  
RT PYLON MOUNTING  
RIGID STRUCTURES  
**RIGID ROTOR HELICOPTERS**  
0104 0206 3202  
RT CH-3 HELICOPTER  
F-28 HELICOPTER  
XH-51 HELICOPTER  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
RT OH-5 HELICOPTER

RIGID ROTORS  
**RIGID ROTORS**  
0104 0206 3202  
UP HINGELESS ROTORS  
BT #AIRFOILS  
RIGID STRUCTURES  
ROTARY WINGS  
#ROTATING BODIES  
ROTORS  
WINGS  
RT RIGID ROTOR HELICOPTERS  
**RIGID STRUCTURES**  
3202  
UP INELASTIC BODIES  
RIGID BODIES  
STIFF STRUCTURES  
RT RIGID ROTORS  
RIGID WINGS  
RT ARCHES  
#COMPOSITE MATERIALS  
EULER EQUATIONS OF MOTION  
REINFORCEMENT (STRUCTURES)  
RIGID MOUNTING  
SANDWICH STRUCTURES  
#SPACE ERECTABLE STRUCTURES  
STEEL STRUCTURES  
STRUCTURES  
#TRANSLATIONAL MOTION  
WELDED STRUCTURES  
**RIGID WINGS**  
0102 0103 0104  
(EXCLUDES RIGID ROTORS)  
BT #AIRFOILS  
RIGID STRUCTURES  
WINGS  
RT AEROELASTICITY  
FIXED WINGS  
FLEXIBLE WINGS  
LOW ASPECT RATIO WINGS  
**RIGIDITY**  
3404 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT FLEXIBILITY  
MAGNETIC RIGIDITY  
#MECHANICAL PROPERTIES  
MODULUS OF ELASTICITY  
RUGGEDNESS  
STIFFNESS  
STRUCTURAL STABILITY  
**BILLS**  
USE VALLEYS  
**RIMS**  
0202 1101 1104 1305 1501 1504 3203  
RT BLADES  
BORDERS  
#EDGES  
MARGINS  
SIDES  
**RING CURRENTS**  
1002 2402 2604  
BT #ELECTRIC CURRENT  
RT ATMOSPHERIC ELECTRICITY  
ELECTROJETS  
RING LASERS  
**RING DISCHARGE**  
1002 2402  
BT #ELECTRIC CURRENT  
GAS DISCHARGES  
TOROIDAL DISCHARGE  
TOWNSEND DISCHARGE  
RT DISCHARGE  
ELECTRODELESS DISCHARGES  
GAS IONIZATION  
HIGH FREQUENCIES  
RADIO FREQUENCY DISCHARGE  
**RING LASERS**  
1601  
BT LASERS  
#STIMULATED EMISSION DEVICES  
RT RING CURRENTS  
**RING STRUCTURES**  
1504 3202  
RT REINFORCEMENT RINGS  
RING WINGS  
RT AERODYNAMIC CONFIGURATIONS  
BANDS  
HOOPS  
REINFORCEMENT (STRUCTURES)  
RINGS  
STRUCTURES

# **NASA THESAURUS (ALPHABETICAL LISTING)**

**RING WINGS**  
0104 1204 3202  
BT #AIRFOILS  
RING STRUCTURES  
UNCAMBERED WINGS  
UNSWEPT WINGS  
WINGS  
RT DUCTED FANS  
SHROUDED PROPELLERS  
TWISTED WINGS  
**RINGS**  
1504 1902 3009  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ANNULI  
BODIES OF REVOLUTION  
CIRCLES (GEOMETRY)  
O RING SEALS  
REINFORCEMENT RINGS  
RING STRUCTURES  
RINGS (MATHEMATICS)  
SATURN RINGS  
TOROIDAL PLASMAS  
TORUSES  
VORTEX RINGS  
**RINGS (MATHEMATICS)**  
1902  
RT MATHEMATICS  
RINGS  
**RIONETERS**  
0710 1302 1406 2301  
UP RIONETRY  
BT #MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
RT ATMOSPHERIC IONIZATION  
AURORAL ABSORPTION  
IONOGRAMS  
IONOSONDES  
IONOSPHERIC NOISE  
IONOSPHERIC PROPAGAT  
**RIONETRY**  
USE MEASUREMENT  
RIONETERS  
**RIPPLES**  
1202 2304  
BT CAPILLARY WAVES  
#ELASTIC WAVES  
#SURFACE WAVES  
RT GRAVITY WAVES  
INTERFACIAL TENSION  
WATER WAVES  
#WIND (METEOROLOGY)  
**RISERS**  
1504 1704  
RT CASTINGS  
PIPES (TUBES)  
**RISK**  
0502 1905  
RT ACCEPTABILITY  
ASSUMPTIONS  
CAPACITY  
COMMERCE  
CONFIDENCE  
CONFIDENCE LIMITS  
CONTINGENCY  
DECISION THEORY  
ESTIMATES  
ESTIMATING  
FINANCE  
#FORECASTING  
GAME THEORY  
#HAZARDS  
INVENTORY CONTROLS  
MATHEMATICAL MODELS  
MAXIMUM LIKELIHOOD ESTIMATES  
OPERATIONS RESEARCH  
#PREDICTIONS  
RELIABILITY  
STRATEGY  
**RITZ AVERAGING METHOD**  
1902 2403  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
RT METHODOLOGY  
**RIVERS**  
1305  
BT EARTH RESOURCES  
RT EROSION  
ESTUARIES  
RESERVOIRS  
STREAMS

# WASA THESAURUS (ALPHABETICAL LISTING)

VALLEYS  
RIVETED JOINTS  
1504 1507 3203  
BT #JOINTS (JUNCTIONS)  
RT BUTT JOINTS  
LAP JOINTS  
METAL JOINTS  
WELDED JOINTS  
RIVETING  
1507  
RT JOINING  
RIVETS  
SEALING  
RIVETS  
1504  
BT #FASTENERS  
RT COUPLINGS  
HOLDERS  
PINS  
RIVETING  
RL-10-A-1 ENGINE  
2804 2808  
BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
RL-10 ENGINES  
ROCKET ENGINES  
RL-10-A-3 ENGINE  
2804 2808  
BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
RL-10 ENGINES  
ROCKET ENGINES  
RT SATURN D LAUNCH VEHICLE  
RL CIRCUITS  
0902 0904  
UF LR CIRCUITS  
NT LC CIRCUITS  
RLC CIRCUITS  
BT #CIRCUITS  
RT COUPLING CIRCUITS  
ELECTRICAL RESISTANCE  
INDUCTANCE  
NETWORK ANALYSIS  
NETWORK SYNTHESIS  
TIME CONSTANT  
RL-10 ENGINES  
2804 2808  
NT RL-10-A-1 ENGINE  
RL-10-A-3 ENGINE  
BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT ATLAS CENTAUR LAUNCH VEHICLE  
CENTAUR PROJECT  
CRYOGENIC ROCKET PROPELLANTS  
SATURN LAUNCH VEHICLES  
RLC CIRCUITS  
0902 1002  
UF LRC CIRCUITS  
RLC NETWORKS  
BT #CIRCUITS  
RL CIRCUITS  
RT CAPACITANCE  
CAPACITANCE SWITCHES  
ELECTRICAL RESISTANCE  
NETWORK ANALYSIS  
NETWORK SYNTHESIS  
RC CIRCUITS  
TIME CONSTANT  
RLC NETWORKS  
USE RLC CIRCUITS  
RNA  
USE RIBONUCLEIC ACIDS  
ROADS  
3401 3404  
NT HIGHWAYS  
RT FACILITIES  
INTERSECTIONS  
PASSAGEWAYS  
PAVEMENTS  
RAPID TRANSIT SYSTEMS  
STREETS  
#TRANSPORTATION  
ROASTING  
3407  
UF CALCINATION  
RT BAKING  
DESULFURIZING  
DRYING  
#HEATING  
IGNITION  
OXIDATION

REDUCTION (CHEMISTRY)  
SINTERING  
ROBIN BALLOONS  
0205 3110  
BT BALLOONS  
#EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
METEOROLOGICAL BALLOONS  
RT HIGH ALTITUDE BALLOONS  
RADIOSONDES  
ROCKOONS  
SKYHOOK BALLOONS  
SOUNDING  
ROBOTS  
1504 3404  
RT ARTIFICIAL INTELLIGENCE  
AUTOMATA THEORY  
BIONICS  
SERVOMECHANISMS  
ROCHE LIMIT  
1901  
BT #RANGE (EXTREMES)  
RT CELESTIAL MECHANICS  
DIMENSIONAL STABILITY  
GRAVITATION  
NATURAL SATELLITES  
#ORBITS  
#ROTATING BODIES  
TWO BODY PROBLEM  
ROCK BOLTS  
1504  
BT BOLTS  
#FASTENERS  
ROCK SALT  
USE HALITES  
ROCKET BOOSTERS  
USE BOOSTER ROCKET ENGINES  
ROCKET-BORNE INSTRUMENTS  
1410 2102 2806 2807 3106  
RT #CONTROLLERS  
FLIGHT TEST INSTRUMENTS  
INSTRUMENTS  
#MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
POSITION INDICATORS  
ROCKET-BORNE PHOTOGRAPHY  
ROCKET-BORNE PHOTOGRAPHY  
1407 3009 3106  
BT #IMAGERY  
#PHOTOGRAPHY  
RT AERIAL PHOTOGRAPHY  
ASTRONOMICAL PHOTOGRAPHY  
BLACK AND WHITE PHOTOGRAPHY  
ROCKET-BORNE INSTRUMENTS  
SATELLITE-BORNE PHOTOGRAPHY  
SPACEBORNE PHOTOGRAPHY  
ROCKET CATAPULTS  
1102 1104 3102  
BT CATAPULTS  
#LAUNCHERS  
ROCKET LAUNCHERS  
GUN LAUNCHERS  
#LAUNCH VEHICLES  
LAUNCHING SITES  
#MISSILES  
ROCKETS  
ROCKET CHAMBERS  
USE COMBUSTION CHAMBERS  
THRUST CHAMBERS  
ROCKET COMBUSTORS  
USE COMBUSTION CHAMBERS  
THRUST CHAMBERS  
ROCKET ENGINE CASES  
1507 2806 3203  
UF MISSILE ENGINE CASES  
ROCKET MOTOR CASES  
BT CASES (CONTAINERS)  
RT MISSILE BODIES  
ORTHOTROPIC CYLINDERS  
PERFORATED SHELLS  
#SHELLS (STRUCTURAL FORMS)  
THRUST CHAMBERS  
ROCKET ENGINE CONTROL  
2807 2808  
BT ENGINE CONTROL  
RT #ATTITUDE CONTROL  
#AUTOMATIC CONTROL  
CONTROL  
DIRECTIONAL CONTROL  
#FLIGHT CONTROL  
FUEL CONTROL  
HEUS ROCKET ENGINES

## ROCKET ENGINES

MISSILE CONTROL  
REMOTE CONTROL  
SERVOCONTROL  
#SPACECRAFT CONTROL  
THRUST CONTROL  
ROCKET ENGINE DESIGN  
2808 3404  
RT COLD FLOW TESTS  
DESIGN  
ENGINE TESTS  
PREFIRING TESTS  
ROVER PROJECT  
ROCKET ENGINE 1KS-420  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
ROCKET ENGINE 2KS-36250  
2808  
BT AIRCRAFT LAUNCHING DEVICES  
BOOSTER ROCKET ENGINES  
#ENGINES  
JATO ENGINES  
#LAUNCHERS  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
ROCKET ENGINE 9KS-11000  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
ROCKET ENGINES  
ROCKET ENGINE 15KS-25000  
2808  
BT AIRCRAFT LAUNCHING DEVICES  
BOOSTER ROCKET ENGINES  
#ENGINES  
JATO ENGINES  
#LAUNCHERS  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
ROCKET ENGINE NOISE  
2808 3301  
BT #ELASTIC WAVES  
ENGINE NOISE  
NOISE (SOUND)  
SOUND WAVES  
RT MUFFLERS  
ROCKET EXHAUST  
ROCKET ENGINE NOZZLE EJECTOR PROGRAM  
USE BENE PROGRAM  
ROCKET ENGINES  
2808  
UF INTERPLANETARY PROPULSION  
THRUSTORS  
NT AJ-10 ENGINE  
ALGOL ENGINE  
ASROC ENGINE  
BE-3 ENGINE  
BOOSTER ROCKET ENGINES  
BRISTOL-SIDDELEY MK 301 ENGINE  
DUCTED ROCKET ENGINES  
ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
EM-36 ROCKET ENGINE  
F-1 ROCKET ENGINE  
H-1 ENGINE  
HERCULES ENGINE  
HEUS ROCKET ENGINES  
HOT WATER ROCKET ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
HYDRAZINE ENGINES  
HYDROGEN OXYGEN ENGINES  
J-2 ENGINE  
LIQUID AIR CYCLE ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
LITHERGOL ROCKET ENGINES  
LR-59-AJ-13 ENGINE  
LR-87-AJ-3 ENGINE  
LR-87-AJ-5 ENGINE  
LR-91-AJ-3 ENGINE  
LR-91-AJ-5 ENGINE  
LR-62 ENGINE  
LR-99 ENGINE  
LR-62-RM-2 ENGINE  
M-1 ENGINE  
M-46 ENGINE  
M-55 ENGINE  
M-56 ENGINE  
M-57 ENGINE  
M-100 ENGINE  
MA-2 ENGINE  
MA-3 ENGINE



## ROCKET EXHAUST

MA-5 ENGINE  
 NG-18 ENGINE  
 MICROROCKET ENGINES  
 NIKE BOOSTER ROCKET ENGINES  
 NUCLEAR ENGINE FOR ROCKET VEHICLES  
 NUCLEAR ROCKET ENGINES  
 P-1 ENGINE  
 RESTARTABLE ROCKET ENGINES  
 RETROROCKET ENGINES  
 RL-10-A-1 ENGINE  
 RL-10-A-3 ENGINE  
 RL-10 ENGINES  
 ROCKET ENGINE 1KS-420  
 ROCKET ENGINE 2KS-36250  
 ROCKET ENGINE 9KS-11000  
 ROCKET ENGINE 15KS-25000  
 SL-3 ROCKET ENGINE  
 SOLID PROPELLANT ROCKET ENGINES  
 SUSTAINER ROCKET ENGINES  
 SYNCOM APOGEE ENGINES  
 TE-289 ENGINE  
 TE-385 ENGINE  
 TU-121 ENGINE  
 TU-122 ENGINE  
 TX-77 ENGINE  
 TX-135 ENGINE  
 TX-354 ENGINE  
 X-258-A1 ENGINE  
 X-258-B1 ENGINE  
 X-235 ENGINE  
 X-248 ENGINE  
 X-254 ENGINE  
 X-259 ENGINE  
 X-405 ENGINE  
 X-258 ENGINES  
 XLR-81-BA-13 ENGINE  
 XLR-58 ENGINE  
 XLR-99 ENGINE  
 XM-33 ENGINE  
 XT-761 ENGINE  
 YLR-91-AJ-1 ENGINE  
 YLR-115 ENGINE  
 BT \*ENGINES  
 RT AIRCRAFT ENGINES  
 BURNING TIME  
 EJECTORS  
 EXHAUST NOZZLES  
 HYBRID PROPULSION  
 IGNITION SYSTEMS  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 JET PROPULSION  
 \*LAUNCH VEHICLES  
 LUNAR MODULE ASCENT STAGE  
 MISSILE CONFIGURATIONS  
 \*MISSILES  
 MULTISTAGE ROCKET VEHICLES  
 POST BOOST PROPULSION SYSTEM  
 PROPELLANT ACTUATED DEVICES  
 REFRACTORIES  
 REUSABLE LAUNCH VEHICLES  
 ROCKET LININGS  
 ROCKET NOZZLES  
 ROCKET PROPELLANTS  
 ROCKET THRUST  
 \*ROCKET VEHICLES  
 ROCKETS  
 SINGLE STAGE ROCKET VEHICLES  
 SOLID ROCKET PROPELLANTS  
 \*SPACECRAFT COMPONENTS  
 SPACECRAFT PROPULSION  
 SPACECRAFT STRUCTURES  
 \*THRUST  
 THRUST VECTOR CONTROL  
 THRUST-WEIGHT RATIO  
 ROCKET EXHAUST  
 1203 2808  
 BT PLUMES  
 RT BASE HEATING  
 COMBUSTION PRODUCTS  
 EXHAUST GASES  
 EXHAUST SYSTEMS  
 JET EXHAUST  
 ROCKET ENGINE NOISE  
 ROCKET FIRING  
 2808 3301  
 NT RETROFIRING  
 BT \*FIRING (IGNITING)  
 RT BURNING TIME  
 DETONATION  
 ROCKET LAUNCHING  
 STATIC FIRING

TEST FIRING  
 ROCKET FLIGHT  
 0101 2807 3006 3106  
 BT CLIMBING FLIGHT  
 COASTING FLIGHT  
 FLIGHT  
 FLIGHT PATHS  
 HORIZONTAL FLIGHT  
 HYPERSONIC FLIGHT  
 METEOROLOGICAL FLIGHT  
 \*SPACE FLIGHT  
 SUBORBITAL FLIGHT  
 SUPERSONIC FLIGHT  
 \*TRAJECTORIES  
 TRANSONIC FLIGHT  
 VERTICAL FLIGHT  
 ROCKET FUEL TANKS  
 USE PROPELLANT TANKS  
 ROCKET LAUNCHERS  
 1104 3103 3106  
 BT ROCKET CATAPULTS  
 BT \*LAUNCHERS  
 RT GROUND SUPPORT EQUIPMENT  
 GUN LAUNCHERS  
 \*LAUNCH VEHICLES  
 \*LAUNCHING  
 LAUNCHING SITES  
 MISSILE LAUNCHERS  
 ROCKET LAUNCHING  
 ROCKETS  
 ROCKOONS  
 SEA LAUNCHING  
 ROCKET LAUNCHING  
 1104 3103 3106  
 UP BLASTOFF  
 NT LUNAR LAUNCH  
 ORBITAL LAUNCHING  
 BT \*LAUNCHING  
 RT \*LAUNCH VEHICLES  
 LAUNCH WINDOWS  
 \*LAUNCHERS  
 ROCKET FIRING  
 ROCKET LAUNCHERS  
 SPACECRAFT LAUNCHING  
 ROCKET LININGS  
 0602 1802 2806  
 BT LININGS  
 RT ENGINE PARTS  
 REFRACTORIES  
 ROCKET ENGINES  
 ROCKET PROPELLANTS  
 ROCKET MOTOR CASES  
 USE ROCKET ENGINE CASES  
 ROCKET NOSE CONES  
 2806  
 BT \*CONES  
 \*FOREBODIES  
 NOSE CONES  
 NOSES (FOREBODIES)  
 RT ABLATIVE NOSE CONES  
 ROCKET NOZZLES  
 2806 2808  
 RT ANNULAR NOZZLES  
 CONICAL NOZZLES  
 CONVERGENT-DIVERGENT NOZZLES  
 DIVERGENT NOZZLES  
 HYPERSONIC NOZZLES  
 NOZZLE INSERTS  
 NOZZLES  
 PLUG NOZZLES  
 RENE PROGRAM  
 ROCKET ENGINES  
 SKIRTS  
 SPIKE NOZZLES  
 SUPERSONIC NOZZLES  
 ROCKET OXIDIZERS  
 2702 2804 2809 3301  
 UP PROPELLANT OXIDIZERS  
 NT FLOI  
 BT \*OXIDIZERS  
 BT CRYOGENIC FLUIDS  
 DOMINO PROPELLANTS  
 HIGH ENERGY OXIDIZERS  
 HYDROGEN PEROXIDE  
 LIQUID OXIDIZERS  
 LIQUID OXYGEN  
 NITROGEN TETROXIDE  
 NITRONIUM PERCHLORATE  
 ROCKET PROPELLANTS  
 ROCKET PLANES  
 0201 3106  
 NT X-1 AIRCRAFT

## NASA THESAURUS (ALPHABETICAL LISTING)

X-2 AIRCRAFT  
 X-15 AIRCRAFT  
 BT \*ROCKET VEHICLES  
 RT AEROSPACEPLANES  
 AIRCRAFT  
 ASTROPLANE  
 BOOSTGLIDE VEHICLES  
 RESEARCH AIRCRAFT  
 \*ROCKET VEHICLES  
 ROCKET PROPELLANT TANKS  
 USE PROPELLANT TANKS  
 ROCKET PROPELLANTS  
 2702  
 UP MULTIPROPELLANTS  
 NT AEROZINE  
 CRYOGENIC ROCKET PROPELLANTS  
 DOUBLE BASE ROCKET PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 HYPERGOLIC ROCKET PROPELLANTS  
 LIQUID ROCKET PROPELLANTS  
 METAL PROPELLANTS  
 MONOPROPELLANTS  
 RP-1 ROCKET PROPELLANTS  
 SLURRY PROPELLANTS  
 SOLID ROCKET PROPELLANTS  
 BT \*PROPELLANTS  
 RT ASCENT PROPULSION SYSTEMS  
 AUXILIARY PROPULSION  
 \*FUELS  
 HYDRAZINES  
 HYDROCARBON FUELS  
 \*MISSILES  
 PROPELLANT BINDERS  
 PROPELLANT STORAGE  
 \*PROPULSION  
 ROCKET ENGINES  
 ROCKET LININGS  
 ROCKET OXIDIZERS  
 ROCKET THRUST  
 SOLID PROPELLANTS  
 SPECIFIC IMPULSE  
 STORABLE PROPELLANTS  
 \*THRUST  
 TORPEDO ENGINES  
 ROCKET PROPELLED SLEDS  
 2808 3404  
 BT SLEDS  
 \*SURFACE VEHICLES  
 RT JAVELIN ROCKET VEHICLE  
 TEST EQUIPMENT  
 ROCKET SONDES  
 USE SOUNDING ROCKETS  
 ROCKET SOUNDING  
 2003 3004 3007 3108  
 BT SOUNDING  
 RT IONOSPHERIC SOUNDING  
 JUDI-DART ROCKET  
 SOUNDING ROCKETS  
 ROCKET TEST FACILITIES  
 1108 3106  
 BT \*TEST FACILITIES  
 RT ENGINE TESTS  
 TEST FIRING  
 TEST RANGES  
 TEST STANDS  
 ROCKET THRUST  
 0101 2308 3106  
 NT RETROTHRUST  
 BT \*THRUST  
 RT HIGH THRUST  
 JET THRUST  
 LOW THRUST  
 LOW THRUST PROPULSION  
 MICROTHRUST  
 PROPULSION SYSTEM PERFORMANCE  
 ROCKET ENGINES  
 ROCKET PROPELLANTS  
 SPECIFIC IMPULSE  
 STATIC THRUST  
 THRUST LOADS  
 THRUST TERMINATION  
 VARIABLE THRUST  
 \*ROCKET VEHICLES  
 3106 3110  
 NT ABLESTAR LAUNCH VEHICLE  
 AEROBEE ROCKET VEHICLE  
 AGENA A ROCKET VEHICLE  
 AGENA B ROCKET VEHICLE  
 AGENA C ROCKET VEHICLE  
 AGENA D ROCKET VEHICLE  
 AGENA ROCKET VEHICLES

# NASA THESAURUS (ALPHABETICAL LISTING)

ANTARES ROCKET VEHICLE  
 APACHE ROCKET VEHICLE  
 ARCAS ROCKET VEHICLES  
 ARCHER SOUNDING ROCKET  
 ARCON ROCKET VEHICLE  
 ARGO D-4 ROCKET VEHICLE  
 ARGO D-8 ROCKET VEHICLE  
 ARGO E-5 ROCKET VEHICLE  
 ARGO ROCKET VEHICLES  
 ASP ROCKET VEHICLE  
 ASTROBEE 200 ROCKET VEHICLE  
 ASTROBEE 1500 ROCKET VEHICLE  
 ASTROBEE ROCKET VEHICLES  
 ATHENA ROCKET VEHICLE  
 ATLAS ABLE 5 LAUNCH VEHICLE  
 ATLAS AGENA B LAUNCH VEHICLE  
 ATLAS AGENA LAUNCH VEHICLES  
 ATLAS CENTAUR LAUNCH VEHICLE  
 ATLAS LAUNCH VEHICLES  
 ATLAS SLV-3 LAUNCH VEHICLE  
 BERENICE ROCKET VEHICLE  
 BLACK BRANT 1 SOUNDING ROCKET  
 BLACK BRANT 2 SOUNDING ROCKET  
 BLACK BRANT 3 SOUNDING ROCKET  
 BLACK BRANT 4 SOUNDING ROCKET  
 BLACK BRANT 5 SOUNDING ROCKET  
 BLACK BRANT SOUNDING ROCKETS  
 BLACK KNIGHT ROCKET VEHICLE  
 BLUE SCOUT JR ROCKET VEHICLE  
 BLUE SCOUT ROCKET VEHICLE  
 BLUE STREAK LAUNCH VEHICLE  
 BLUE STREAK MISSILE  
 CAJUN ROCKET VEHICLE  
 CENTAUR LAUNCH VEHICLE  
 D-6 ROCKET VEHICLE  
 DRAGON-ARROW ROCKET VEHICLE  
 DIAMANT LAUNCH VEHICLE  
 DORNIER PARAGLIDER ROCKET VEHICLE  
 ELDO LAUNCH VEHICLE  
 EXOS SOUNDING ROCKET  
 FOLDING PIN AIRCRAFT ROCKET VEHICLE  
 GENIE ROCKET VEHICLE  
 HONEST JOHN ROCKET VEHICLE  
 HOVERING ROCKET VEHICLES  
 HYLAR STAR ROCKET VEHICLE  
 JAGUAR ROCKET VEHICLE  
 JASON ROCKET VEHICLE  
 JAVELIN ROCKET VEHICLE  
 JOURNEYMAN ROCKET VEHICLE  
 JUNO 1 LAUNCH VEHICLE  
 JUNO 2 LAUNCH VEHICLE  
 JUNO 5 LAUNCH VEHICLE  
 JUPITER C ROCKET VEHICLE  
 KAPPA 6 ROCKET VEHICLE  
 KAPPA 8 ROCKET VEHICLE  
 KAPPA 9 ROCKET VEHICLE  
 KAPPA ROCKET VEHICLES  
 LAMBDA ROCKET VEHICLES  
 LITTLE JOE 2 LAUNCH VEHICLE  
 LITTLE JOHN ROCKET VEHICLE  
 LOKI ROCKET VEHICLE  
 METEOR 1 ROCKET VEHICLE  
 MULTISTAGE ROCKET VEHICLES  
 NIKE-APACHE ROCKET VEHICLE  
 NIKE-ASP ROCKET VEHICLE  
 NIKE-CAJUN ROCKET VEHICLE  
 NIKE-HYDAC ROCKET VEHICLE  
 NIKE-IROQUOIS ROCKET VEHICLE  
 NIKE-JAVELIN ROCKET VEHICLE  
 NIKE ROCKET VEHICLES  
 NIKE-TOMAHAWK ROCKET VEHICLE  
 NOMAD LAUNCH VEHICLE  
 NOVA H LAUNCH VEHICLE  
 NOVA J LAUNCH VEHICLE  
 NOVA LAUNCH VEHICLES  
 OPD-220 ROCKET VEHICLE  
 PHOENIX SOUNDING ROCKET  
 RAM B LAUNCH VEHICLE  
 ROCKET PLANES  
 RUBIS ROCKET VEHICLE  
 SATURN 1B LAUNCH VEHICLES  
 SATURN D LAUNCH VEHICLE  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 SATURN 2 LAUNCH VEHICLES  
 SATURN 5 LAUNCH VEHICLES  
 SATURN S-1B STAGE  
 SATURN S-4B STAGE  
 SATURN S-1C STAGE  
 SATURN S-1 STAGE  
 SATURN S-2 STAGE  
 SATURN S-4 STAGE

SATURN 1 SA-1 LAUNCH VEHICLE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 SATURN 1 SA-5 LAUNCH VEHICLE  
 SATURN 1 SA-6 LAUNCH VEHICLE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 SATURN STAGES  
 SCOUT LAUNCH VEHICLE  
 SHOTPUT SOUNDING ROCKETS  
 SINGLE STAGE ROCKET VEHICLES  
 SKUA ROCKET VEHICLES  
 SKYDART 2 ROCKET VEHICLE  
 SKYLARK ROCKET VEHICLE  
 SOUNDING ROCKETS  
 STANDARD LAUNCH VEHICLE 2A  
 STANDARD LAUNCH VEHICLE 1B  
 STANDARD LAUNCH VEHICLE P 1  
 STANDARD LAUNCH VEHICLE 1  
 STANDARD LAUNCH VEHICLE 5  
 STANDARD LAUNCH VEHICLES  
 STRONGARM ROCKET VEHICLE  
 SURFACE TO SURFACE ROCKETS  
 THOR ABLE ROCKET VEHICLE  
 THOR AGENA LAUNCH VEHICLE  
 THOR DELTA LAUNCH VEHICLE  
 THOR LAUNCH VEHICLES  
 THORAD LAUNCH VEHICLES  
 TITAN 3 LAUNCH VEHICLE  
 TITAN LAUNCH VEHICLES  
 VANGUARD 2 LAUNCH VEHICLE  
 VEGA LAUNCH VEHICLE  
 VENUS FLY TRAP ROCKET VEHICLE  
 VERONIQUE ROCKET VEHICLES  
 VERONIQUE V-27 ROCKET VEHICLE  
 VERONIQUE V-37 ROCKET VEHICLE  
 VIKING ROCKET VEHICLE  
 WASP SOUNDING ROCKET  
 ZUNI ROCKET VEHICLE  
 BALLISTIC VEHICLES  
 FLIGHT VEHICLES  
 HEUS ROCKET ENGINES  
 #LAUNCH VEHICLES  
 MISSILE CONFIGURATIONS  
 MULTIENGINE VEHICLES  
 ROCKET ENGINES  
 ROCKET PLANES  
 ROCKETS  
 STAGE SEPARATION  
 TEST VEHICLES  
 TRAILBLAZER 1 REENTRY VEHICLE  
 TRAILBLAZER 2 REENTRY VEHICLE  
 VEHICLES  
 WINGED VEHICLES  
 X-1 AIRCRAFT  
 X-2 AIRCRAFT  
 X-15 AIRCRAFT  
 X-17 REENTRY VEHICLE  
 ROCKETRY  
 USE ROCKETS  
 ROCKETS  
 3106 3110  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP ROCKETRY  
 NT PETREL SOUNDING ROCKET  
 RT AMMUNITION  
 ESCAPE ROCKETS  
 INCENDIARY AMMUNITION  
 #LAUNCH VEHICLES  
 #MISSILES  
 NUCLEAR RAMJET ENGINES  
 NUCLEAR ROCKET ENGINES  
 NUCLEAR WEAPONS  
 PETREL SOUNDING ROCKET  
 PYROTECHNICS  
 REENTRY  
 #REENTRY VEHICLES  
 ROCKET CATAPULTS  
 ROCKET ENGINES  
 ROCKET LAUNCHERS  
 #ROCKET VEHICLES  
 ROCKOONS  
 #SPACE FLIGHT  
 SURFACE TO AIR MISSILES  
 SURFACE TO SURFACE MISSILES  
 SURFACE TO SURFACE ROCKETS  
 TORPEDOES

## ROGALLO WINGS

WARHEADS  
 #WEAPON SYSTEMS  
 ROCKOONS  
 0205 2809 3106 3108  
 RT HIGH ALTITUDE BALLOONS  
 METEOROLOGICAL BALLOONS  
 ROBIN BALLOONS  
 ROCKET LAUNCHERS  
 ROCKETS  
 SKYHOOK BALLOONS  
 ROCKS  
 1305 1306  
 UP STONES (ROCKS)  
 NT ANDESITE  
 ANORTHOSITE  
 ATAXITE  
 BASALT  
 BRECCIA  
 CARBONACEOUS ROCKS  
 COAL  
 DIORITE  
 DUNITE  
 ECLIGITE  
 ENSTATITE  
 GNEISS  
 GRANITE  
 IGNEOUS ROCKS  
 LAVA  
 LIMESTONE  
 LUNAR ROCKS  
 MAGMA  
 MOLDAVITE  
 OBSIDIAN  
 OLIVINE  
 PERIDOTITE  
 PUMICE  
 PYROXENES  
 QUARTZ  
 SANDSTONES  
 SCHIST  
 SEDIMENTARY ROCKS  
 SERPENTINE  
 SHALES  
 SYENITE  
 TRACHYTE  
 BT EARTH RESOURCES  
 RT AGGREGATES  
 BAUXITE  
 CLAYS  
 DIRT  
 DOLOMITE (MINERAL)  
 FORMATIONS  
 #GEOLOGY  
 GYPSUM  
 LITHOLOGY  
 #METAMORPHISM (GEOLOGI)  
 #MINERALS  
 PALEOMAGNETISM  
 PETROGRAPHY  
 PETROLOGY  
 #SOILS  
 STRATIGRAPHY  
 TUNNELING (EXCAVATION)  
 ROCKWELL HARDNESS  
 1504 1704 1806 2601  
 BT HARDNESS  
 #MECHANICAL PROPERTIES  
 RT MICROHARDNESS  
 RODENTS  
 0402  
 NT GROUND SQUIRRELS  
 GUINEA PIGS  
 HAMSTERS  
 JERBOAS  
 MICE  
 POCKET MICE  
 RABBITS  
 RATS  
 SQUIRRELS  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 RODS  
 0403 0404 0406 0408 1504 3203  
 NT CONTROL RODS  
 RT BARS  
 BILLETS  
 DIRECTORS (ANTENNA ELEMENTS)  
 #STRUCTURAL MEMBERS  
 #WIRE  
 ROGALLO WINGS  
 USE FLEXIBLE WINGS

ROLL

NASA THESAURUS (ALPHABETICAL LISTING)

FOLDING STRUCTURES  
 ROLL 0101 0201 1504 1704 1805 3203  
 UP DAMPING IN ROLL  
 RT LATERAL CONTROL  
 LATERAL OSCILLATION  
 LATERAL STABILITY  
 PITCH (INCLINATION)  
 ROLLERS  
 ROLLING  
 ROLLING MOMENTS  
 ROTATION  
 SIDESLIP  
 TURNING FLIGHT  
 YAW  
 ROLL CONTROL  
 USE LATERAL CONTROL  
 ROLL FORMING  
 1504  
 BT #FORMING TECHNIQUES  
 RT COLD WORKING  
 #METAL WORKING  
 ROLLER BEARINGS  
 1503 1504  
 BT ANTIFRICTION BEARINGS  
 #BEARINGS  
 RT BALL BEARINGS  
 NEEDLE BEARINGS  
 THRUST BEARINGS  
 ROLLERS  
 1504  
 RT CONVEYORS  
 CYLINDRICAL BODIES  
 DISPENSERS  
 DISTRIBUTORS  
 IDLERS  
 PLATENS  
 PULLEYS  
 ROLL  
 TIRES  
 VEHICLE WHEELS  
 #WHEELS  
 ROLLING  
 0201 2102 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AUSFORMING  
 FLATTERING  
 FORGING  
 LEVELING  
 #METAL WORKING  
 ROLL  
 ROLLING CONTACT BEARINGS  
 USE ANTIFRICTION BEARINGS  
 ROLLING CONTACT LOADS  
 1504  
 BT DYNAMIC LOADS  
 #LOADS (FORCES)  
 RT ANTIFRICTION BEARINGS  
 #STRESSERS  
 ROLLING MOMENTS  
 0101 0102 0201  
 BT #MOMENTS  
 STABILITY DERIVATIVES  
 RT AERODYNAMIC COEFFICIENTS  
 LATERAL STABILITY  
 MOMENTS OF INERTIA  
 PITCHING MOMENTS  
 ROLL  
 TORQUE  
 YAWING MOMENTS  
 ROOFS  
 3202  
 RT BUILDINGS  
 SHEATHS  
 ROOM TEMPERATURE  
 0603 1408  
 BT #TEMPERATURE  
 RT AMBIENT TEMPERATURE  
 OPERATING TEMPERATURE  
 ROOMS  
 0405 0701 0803 1101 1104 1106-3404  
 RT CLEAN ROOMS  
 DARKROOMS  
 RT #COMPARTMENTS  
 ENCLOSURES  
 LOUNGES  
 ROOT-MEAN-SQUARE ERRORS  
 1905  
 BT ERRORS  
 RT ERROR ANALYSIS

#STATISTICAL ANALYSIS  
 ROOTS  
 0104 0409 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT PLANT ROOTS  
 RADICALS  
 ROOTS OF EQUATIONS  
 WING ROOTS  
 ROOTS OF EQUATIONS  
 1902  
 UP ZERO CROSSINGS  
 RT EIGENVALUES  
 EQUATIONS  
 EXISTENCE THEOREMS  
 MATRICES (MATHEMATICS)  
 NONLINEAR EQUATIONS  
 POLYNOMIALS  
 ROOTS  
 ROBSCHACH TESTS  
 0408 0410  
 BT PSYCHOLOGICAL TESTS  
 RT MENTAL HEALTH  
 #PSYCHOLOGY  
 ROSETTE SHAPES  
 3203  
 BT SHAPES  
 RT ANTENNA RADIATION PATTERNS  
 CRYSTALLITES  
 SPHERULITES  
 STRAIN GAGES  
 ROSKOPF PREDICTION  
 1202 1203 1204  
 BT #PREDICTIONS  
 RT BLOFF BODIES  
 LAMINAR FLOW  
 OSEEN APPROXIMATION  
 THREE DIMENSIONAL FLOW  
 ROSIN  
 1805 1808  
 BT GUMS (SUBSTANCES)  
 RT ORGANIC MATERIALS  
 ROSS ICE SHELF  
 1305  
 BT ANTARCTIC REGIONS  
 POLAR REGIONS  
 #REGIONS  
 #SOUTHERN HEMISPHERE  
 RT SCHUBERT SOUND  
 ROSSBY REGIMES  
 1202 1203 2003  
 RT BAROTROPIC FLOW  
 ROTARY DRIVES  
 USE #MECHANICAL DRIVES  
 ROTARY GYROSCOPES  
 0101 0202 1403  
 BT FLUID ROTOR GYROSCOPES  
 RT #GYROSCOPES  
 RT GYROSCOPE FLUIDS  
 GYROSCOPIC STABILITY  
 #ROTATING BODIES  
 ROTARY STABILITY  
 0101 0104 0201  
 UP WHIRL INSTABILITY  
 RT GYROSCOPIC STABILITY  
 #DYNAMIC CHARACTERISTICS  
 DYNAMIC STABILITY  
 MOTION STABILITY  
 #STABILITY  
 RT DIRECTIONAL STABILITY  
 FLOW STABILITY  
 LATERAL STABILITY  
 LONGITUDINAL STABILITY  
 #ROTATING BODIES  
 ROTATION  
 ROTARY WING AIRCRAFT  
 0104 0201 0206  
 UP ROTORCRAFT  
 RT ALOUETTE HELICOPTERS  
 AUTOGYROS  
 AVIAN 2/180 AUTOGYRO  
 BENSON B-8M AUTOGYRO  
 BO-105 HELICOPTER  
 BO P-310 HELICOPTER  
 CH-3 HELICOPTER  
 CH-21 HELICOPTER  
 CH-34 HELICOPTER  
 CH-46 HELICOPTER  
 CH-47 HELICOPTER  
 CH-54 HELICOPTER  
 COMPOUND HELICOPTERS

P-28 HELICOPTER  
 FIAT 7002 HELICOPTER  
 GRASSHOPPER HELICOPTER  
 H-17 HELICOPTER  
 H-25 HELICOPTER  
 H-43 HELICOPTER  
 H-53 HELICOPTER  
 H-54 HELICOPTER  
 H-56 HELICOPTER  
 HC-3 HELICOPTER  
 HELICOPTERS  
 HH-43 HELICOPTER  
 HILLER 1123 HELICOPTER  
 KH-4 HELICOPTER  
 MILITARY HELICOPTERS  
 MH-41 HELICOPTER  
 OH-4 HELICOPTER  
 OH-5 HELICOPTER  
 OH-6 HELICOPTER  
 OH-13 HELICOPTER  
 OH-23 HELICOPTER  
 P-531 HELICOPTER  
 QH-50 HELICOPTER  
 RIGID ROTOR HELICOPTERS  
 S-61 HELICOPTER  
 SA-330 HELICOPTER  
 SA-3210 HELICOPTER  
 SE-3160 HELICOPTER  
 SH-3 HELICOPTER  
 SH-4 HELICOPTER  
 SH-34 HELICOPTER  
 SIEMETZKI T-3 HELICOPTER  
 SIKORSKY WHIRLWIND HELICOPTER  
 TANDEM ROTOR HELICOPTERS  
 TH-55 HELICOPTER  
 UH-1 HELICOPTER  
 UH-2 HELICOPTER  
 UH-34 HELICOPTER  
 V-2 HELICOPTER  
 WA-116 AUTOGYRO  
 WESTLAND WHIRLWIND HELICOPTER  
 WF S-64 HELICOPTER  
 XH-51 HELICOPTER  
 XV-9A AIRCRAFT  
 BT #V-STOL AIRCRAFT  
 RT AIRCRAFT  
 AUTOROTATION  
 #COMMERCIAL AIRCRAFT  
 LIFTING ROTORS  
 MILITARY AIRCRAFT  
 PASSENGER AIRCRAFT  
 ROTARY WINGS  
 SHORT TAKEOFF AIRCRAFT  
 SUBSONIC AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 ROTARY WINGS  
 0104 0201 0202  
 UP HELICOPTER ROTORS  
 HINGED ROTOR BLADES  
 NT LIFTING ROTORS  
 RIGID ROTORS  
 TILTING ROTORS  
 TIP DRIVEN ROTORS  
 BT #AIRFOILS  
 #ROTATING BODIES  
 ROTORS  
 WINGS  
 RT BLADE TIPS  
 BLADES  
 FLAPPING HINGES  
 FOLDING STRUCTURES  
 HELICOPTER PROPELLER DRIVE  
 LIFT FANS  
 PROPELLER BLADES  
 ROTARY WING AIRCRAFT  
 ROTOR BLADES  
 ROTATING  
 USE ROTATION  
 #ROTATING BODIES  
 0101 1901 2308 3001  
 UP ROTATING CONES  
 ROTATING VEHICLES  
 SOLID ROTATION  
 COMPRESSOR ROTORS  
 FLYWHEELS  
 IMPELLERS  
 LIFTING ROTORS  
 PUMP IMPELLERS  
 RIGID ROTORS  
 ROTARY WINGS  
 ROTATING CYLINDERS

# NASA 'THESAURUS' (ALPHABETICAL LISTING)

ROTATING DISKS  
 ROTATING SPHERES  
 ROTORS  
 TILTING ROTORS  
 TIP DRIVEN ROTORS  
 TURBINE WHEELS  
 BT AXES OF ROTATION  
 BODIES  
 PLANETARY ROTATION  
 ROCHE LIMIT  
 ROTARY GYROSCOPES  
 ROTARY STABILITY  
 ROTATING MIRRORS  
 #ROTATING SHAFTS  
 ROTATION  
 SPINNING UNGUIDED ROCKET TRAJECTORY  
 ROTATING CONES  
 USE CONICAL BODIES  
 #ROTATING BODIES  
 ROTATING CYLINDERS  
 1202 2308  
 BT BODIES OF REVOLUTION  
 CYLINDRICAL BODIES  
 #ROTATING BODIES  
 #SYMMETRICAL BODIES  
 RT COUETTE FLOW  
 CYLINDERS  
 CYLINDRICAL SHELLS  
 ELASTOHYDRODYNAMICS  
 MAGNUS EFFECT  
 ROTATING DISKS  
 SHAFTS (MACHINE ELEMENTS)  
 VISCOMETERS  
 VISCOMETRY  
 ROTATING DISKS  
 0101 1202 2308  
 BT DISKS (SHAPES)  
 #ROTATING BODIES  
 RT KARMAN-BODEWADT FLOW  
 ROTATING CYLINDERS  
 ROTATING ELECTRICAL MACHINES  
 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ARMATURES  
 COMMUTATORS  
 ELECTRIC MOTORS  
 ROTATING GENERATORS  
 ROTORS  
 SERVOMOTORS  
 STATORS  
 ROTATING ENVIRONMENTS  
 0401 0408 0504 0506  
 BT #ENVIRONMENTS  
 RT ARTIFICIAL GRAVITY  
 BARANY CHAIR  
 CORIOLIS EFFECT  
 HIGH GRAVITY ENVIRONMENTS  
 SPACECRAFT ENVIRONMENTS  
 TUMBLING MOTION  
 ROTATING FLUIDS  
 1202 1203  
 NT ROTATING LIQUIDS  
 RT FLUIDS  
 KARMAN-BODEWADT FLOW  
 LIQUID SLOSHING  
 ROTATING PLASMAS  
 TAYLOR INSTABILITY  
 TURBULENT FLOW  
 VORTEX SHEETS  
 VORTICES  
 ROTATING GENERATORS  
 0301 1504  
 UP DYNAMOS  
 NT AC GENERATORS  
 AMPLIDYNES  
 ASTEC SOLAR TURBOELECTRIC GENERATOR  
 DYNAMOMETERS  
 STATIC ALTERNATORS  
 TURBOGENERATORS  
 BT #ELECTRIC GENERATORS  
 RT COMMUTATORS  
 ELECTROSTATIC GENERATORS  
 ROTATING ELECTRICAL MACHINES  
 TURBINES  
 #TURBOMACHINERY  
 ROTATING LIQUIDS  
 1202  
 UP LIQUID ROTATION  
 BT #LIQUIDS  
 ROTATING FLUIDS

RT ROTATION  
 VORTICES  
 ROTATING MATTER  
 2308  
 RT MATTER (PHYSICS)  
 ROTATION  
 SPIN DYNAMICS  
 ROTATING MIRRORS  
 1405 1407 1410 2310  
 BT MIRRORS  
 RT PRANING CAMERAS  
 HIGH SPEED CAMERAS  
 #ROTATING BODIES  
 ROTATING PLASMAS  
 2308 2502  
 BT #PLASMAS (PHYSICS)  
 RT DRIFT RATE  
 NONEQUILIBRIUM PLASMAS  
 #PARTICLES  
 PLASMA FLUX MEASUREMENTS  
 ROTATING FLUIDS  
 THETA PINCH  
 TOROIDAL PLASMAS  
 TWO FLUID MODELS  
 #ROTATING SHAFTS  
 0101 0202 2308  
 NT SHAFTS (MACHINE ELEMENTS)  
 TURBOSHAFTS  
 RT #ROTATING BODIES  
 ROTATING SPHERES  
 0205 1901 2308  
 BT BODIES OF REVOLUTION  
 #ROTATING BODIES  
 SPHERES  
 #SYMMETRICAL BODIES  
 RT EQUATORS  
 SPHERICAL SHELLS  
 ROTATING STALLS  
 1202  
 RT BOUNDARY LAYER SEPARATION  
 COMPRESSOR BLADES  
 ROTOR BLADES  
 TURBOCOMPRESSORS  
 ROTATING VEHICLES  
 USE #ROTATING BODIES  
 VEHICLES  
 ROTATION  
 1504 3001 3006 3407  
 UP ROTATING  
 WHIRL  
 WHIRLING  
 NT AUTOROTATION  
 EARTH ROTATION  
 MOLECULAR ROTATION  
 PLANETARY ROTATION  
 SATELLITE ROTATION  
 SOLAR ROTATION  
 STELLAR ROTATION  
 BT #GYRATION  
 RT ANGULAR ACCELERATION  
 ANGULAR VELOCITY  
 AXES OF ROTATION  
 #CIRCULATION  
 CORIOLIS EFFECT  
 FARADAY EFFECT  
 LIBRATION  
 MOTION  
 NUTATION  
 PITCH (INCLINATION)  
 POLARIZATION (SPIN ALIGNMENT)  
 POLARIZATION (WAVES)  
 PRECESSION  
 REVOLVING  
 ROLL  
 ROTARY STABILITY  
 #ROTATING BODIES  
 ROTATING LIQUIDS  
 ROTATING MATTER  
 ROTONS  
 TORQUE  
 VORTICES  
 YAW  
 ROTATIONAL FLOW  
 USE #FLUID FLOW  
 VORTICES  
 ROTIPERA  
 0402 0407  
 BT #ANIMALS  
 INVERTEBRATES  
 #MICROORGANISMS  
 PARAMECIA  
 PROTOZOA

## ROTORS

ROTOCUTES  
 0208  
 BT PARACHUTES  
 RT AUTOROTATION  
 ROTONS  
 2303 2308  
 BT FLUID DYNAMICS  
 #FLUID MECHANICS  
 RT ACTIVATION ENERGY  
 #EXCITATION  
 PROTONS  
 ROTATION  
 ROTOR AERODYNAMICS  
 0101 0102  
 BT AERODYNAMICS  
 FLUID DYNAMICS  
 #FLUID MECHANICS  
 GAS DYNAMICS  
 RT FLAPPING  
 FLAPPING HINGES  
 ROTORS  
 ROTOR BLADES  
 0102 0104 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ROTARY WINGS  
 ROTATING STALLS  
 ROTOR BLADES (TURBOMACHINERY)  
 ROTOR BLADES (TURBOMACHINERY)  
 1504  
 UP IMPELLER BLADES  
 BT TURBOMACHINE BLADES  
 RT #AIRFOILS  
 BLADE TIPS  
 BLADES  
 COMPRESSOR BLADES  
 COMPRESSOR ROTORS  
 IMPELLERS  
 ROTOR BLADES  
 ROTORS  
 STATOR BLADES  
 TURBINE BLADES  
 ROTOR DISKS  
 USE TURBINE WHEELS  
 ROTOR HUBS  
 USE HUBS  
 ROTORS  
 ROTOR LIFT  
 0101 0104  
 BT #AERODYNAMIC CHARACTERISTICS  
 #AERODYNAMIC FORCES  
 #DYNAMIC CHARACTERISTICS  
 LIFT  
 RT #DISTRIBUTION (PROPERTY)  
 ROTOR SPEED  
 0104 0201 0206 2308  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT ANGULAR VELOCITY  
 HIGH SPEED  
 TIP SPEED  
 ROTORCRAFT  
 USE ROTARY WING AIRCRAFT  
 ROTORCRAFT AIRCRAFT  
 0201 0206  
 NT GRASSHOPPER HELICOPTER  
 RT AIRCRAFT  
 ROTORS  
 0104 1504  
 UP ROTOR HUBS  
 NT COMPRESSOR ROTORS  
 FLYWHEELS  
 IMPELLERS  
 LIFTING ROTORS  
 PUMP IMPELLERS  
 RIGID ROTORS  
 ROTARY WINGS  
 TILTING ROTORS  
 TIP DRIVEN ROTORS  
 TURBINE WHEELS  
 BT #ROTATING BODIES  
 RT #AIRFOILS  
 ARMATURES  
 CENTRIFUGAL COMPRESSORS  
 ROTATING ELECTRICAL MACHINES  
 ROTOR AERODYNAMICS  
 ROTOR BLADES (TURBOMACHINERY)  
 STATORS  
 TURBINES  
 TURBOCOMPRESSORS  
 TURBOMACHINE BLADES

# ROUGHNESS

TURBOSHAPTS  
#WHEELS  
WINGS  
ROUGHNESS  
0101 0408 1202 1704 1805 3203 3408  
UF SMOOTHNESS  
NT SEA ROUGHNESS  
RT SURFACE ROUGHNESS  
COARSENESS  
CONTOURS  
FLATNESS  
#MECHANICAL PROPERTIES  
MOTION STABILITY  
PROFILOMETERS  
SMOOTHING  
#SURFACE PROPERTIES  
ROUND TRIP TRAJECTORIES  
3006 3104 3110  
NT CIRCULUNAR TRAJECTORIES  
BT #TRAJECTORIES  
RT EARTH-MOON TRAJECTORIES  
INTERPLANETARY FLIGHT  
INTERPLANETARY TRAJECTORIES  
MOON-EARTH TRAJECTORIES  
ORBITAL MECHANICS  
SPACECRAFT TRAJECTORIES  
SWINGBY TECHNIQUE  
ROUNDED LEADING EDGES  
USE LEADING EDGES  
ROUSE BELTS  
1308  
RT BELTS  
EARTHQUAKES  
GEOLOGICAL FAULTS  
SEISMOLOGY  
TREMORS  
VOLCANOLOGY  
ROUTES  
1904 2101 2103  
RT AIR TRAFFIC CONTROL  
FLIGHT PLANS  
PATHS  
#TRANSPORTATION  
ROUTINES  
0802 0803  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
INPUT/OUTPUT ROUTINES  
OPERATING SYSTEMS (COMPUTERS)  
ROVER PROJECT  
2201 2204 3409  
BT NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
RT KIWI REACTORS  
NUCLEAR ENGINE FOR ROCKET VEHICLES  
NUCLEAR PROPULSION  
#NUCLEAR REACTORS  
ROCKET ENGINE DESIGN  
SPACECRAFT PROPULSION  
ROVINGS  
3004 3007  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #COMPOSITE MATERIALS  
PROVING  
WEBS (SHEETS)  
YARNS  
ROWLAND CIRCLES  
2306 2310  
RT GRATINGS (SPECTRA)  
OPTICAL FILTERS  
RP-1 ROCKET PROPELLANTS  
2702 2804  
BT CHEMICAL FUELS  
#FUELS  
HYDROCARBON FUELS  
LIQUID ROCKET PROPELLANTS  
#LIQUIDS  
#PROPELLANTS  
ROCKET PROPELLANTS  
RT JP-4 JET FUEL  
KEROSENE  
RTV-40 RUBBER (TRADEMARK)  
1810  
RTV-60 RUBBER (TRADEMARK)  
1810

#RUBBER  
1802 1809 1810  
BT ADIPRENE (TRADEMARK)  
BUNA (TRADEMARK)  
CHLOROPRENE RESINS  
ELASTOMERS  
LATEX  
SILICONE RUBBER  
SYNTHETIC RUBBERS  
THIOPLASTICS  
VITON RUBBER (TRADEMARK)  
BT GUNS (SUBSTANCES)  
ORGANIC MATERIALS  
POLYISOPRENES  
RUBBER COATINGS  
RUBBER COATINGS  
1504 3404  
BT #COATINGS  
BT PAINTS  
PROTECTIVE COATINGS  
#RUBBER  
RUBIDIUM  
1703  
BT RUBIDIUM ISOTOPES  
RUBIDIUM 86  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
#METALS  
RUBIDIUM COMPOUNDS  
1804  
BT ALKALI METAL COMPOUNDS  
METAL COMPOUNDS  
RUBIDIUM ISOTOPES  
2406  
NT RUBIDIUM 86  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RUBIDIUM  
RUBIDIUM 86  
1703 2406  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
RUBIDIUM  
RUBIDIUM ISOTOPES  
RUBIS ROCKET VEHICLE  
3106  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
RUBY  
1601 1806 2601  
RT ALUMINUM OXIDES  
#CRYSTALS  
RUBY LASERS  
RUBY LASERS  
1601 2306  
BT #ELECTRONIC EQUIPMENT  
LASERS  
SOLID STATE DEVICES  
SOLID STATE LASERS  
#STIMULATED EMISSION DEVICES  
RT PULSED LASERS  
Q SWITCHED LASERS  
RUBY  
VERNEUIL PROCESS  
RUDDERS  
0101 0104 0202 1402  
NT AERIAL RUDDERS  
MARINE RUDDERS  
BT #CONTROL SURFACES  
RT #AIRFOILS  
FINS  
PINTLES  
STABILIZERS (FLUID DYNAMICS)  
SWEEPBACK TAIL SURFACES  
TABS (CONTROL SURFACES)  
TAIL ASSEMBLIES  
TAIL SURFACES  
TRAPEZOIDAL TAIL SURFACES  
RUGGEDNESS  
3408  
RT DURABILITY  
HIGH RESISTANCE  
#MECHANICAL PROPERTIES  
PHYSIOLOGY  
RIGIDITY

# NASA THESAURUS (ALPHABETICAL LISTING)

RULER METHOD  
1902  
RT METHODOLOGY  
#RULES  
3403 1902  
BT FLIGHT RULES  
INSTRUMENT FLIGHT RULES  
PALMGREN-MINER RULE  
PHASE RULE  
SUM RULES  
WHITHAM RULE  
RT #LAWS  
PATENT POLICY  
POLICIES  
PROCUREMENT POLICY  
REGULATIONS  
RUHANIA  
1305  
RT EUROPE  
NATIONS  
RUMBLE INSTABILITY  
USE ACOUSTIC INSTABILITY  
RUN TIME (COMPUTERS)  
0802  
RT COMPUTER PROGRAMMING  
COMPUTERS  
TIME SHARING  
RUNGE-KUTTA METHOD  
1902  
BT #ANALYSIS (MATHEMATICS)  
MEASURE AND INTEGRATION  
NUMERICAL ANALYSIS  
NUMERICAL INTEGRATION  
REAL VARIABLES  
RUNNING  
3404 3406 3407  
BT EXERCISE (PHYSIOLOGY)  
OPERATIONS  
RUNUP  
USE ENGINE TESTS  
RUNWAY ALIGNMENT  
1101 1102  
(ALIGNMENT WITH RUNWAYS--NOT ALIGNMENT  
OF RUNWAYS)  
RT AIRCRAFT LANDING  
RUNWAY LIGHTS  
TAKEOFF RUNS  
RUNWAY CONDITIONS  
0203 1101 1102  
BT CONDITIONS  
RT #ICE  
RUNWAYS  
SLUSH  
SURFACE ROUGHNESS  
WATER  
WEATHER  
RUNWAY LIGHTS  
0203 1101 1102 2306  
BT AIRPORT LIGHTS  
#LANDING AIDS  
#LIGHTING EQUIPMENT  
LUMINAIRES  
RT APPROACH CONTROL  
FLARES  
MARKERS  
RUNWAY ALIGNMENT  
RUNWAYS  
SEARCHLIGHTS  
VISUAL CONTROL  
RUNWAYS  
0203 1101 1102  
RT AIRFIELD SURFACE MOVEMENTS  
AIRPORTS  
#LANDING  
#LANDING AIDS  
LANDING SITES  
PAVEMENTS  
RUNWAY CONDITIONS  
RUNWAY LIGHTS  
STRIP  
TAKEOFF  
TAXIING  
RUPTURING  
1704 3204  
RT BLISTERS  
#BURSTS  
CRACKING (FRACTURING)  
DISRUPTING  
FAILURE  
FRACTURE MECHANICS  
METAL FATIGUE  
SELF SEALING

NASA THESAURUS (ALPHABETICAL LISTING)

R7V AIRCRAFT

STRUCTURAL STRAIN  
TEARING

RUSTING  
0603 1702  
BT #CHEMICAL REACTIONS  
CORROSION  
OXIDATION  
RT CHEMICAL ATTACK  
#COATINGS  
CORROSION RESISTANCE  
DEGRADATION  
DETERIORATION  
METAL-WATER REACTIONS  
OXIDATION RESISTANCE  
PASSIVITY  
SCALE (CORROSION)  
WEATHERING

RUTHENIUM  
1703  
RT RUTHENIUM COMPOUNDS  
RUTHENIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
NOBLE METALS  
RUTHENIUM ALLOYS  
1701 1704  
BT #ALLOYS  
RUTHENIUM COMPOUNDS  
0603 1703  
BT RUTHENIUM  
RT CHEMICAL COMPOUNDS  
COMPOUNDS  
METAL COMPOUNDS  
TRANSITION METALS  
RUTHENIUM ISOTOPES  
2406  
UF RUTHENIUM 106  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NOBLE METALS  
NUCLIDES  
RUTHENIUM  
RUTHENIUM 106  
USE RUTHENIUM ISOTOPES

RUTILE  
1806 2602  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
#TITANIUM COMPOUNDS  
TITANIUM OXIDES  
RT ANATASE  
CROSS RELAXATION  
#MINERALS  
PIGMENTS

RYAN AIRCRAFT  
0207  
UF RYAN MILITARY AIRCRAFT  
NT FIREBEE 2 TARGET DRONE AIRCRAFT  
VZ-3 AIRCRAFT  
X-13 AIRCRAFT  
YC-142 AIRCRAFT  
YV-8A AIRCRAFT  
YV-5 AIRCRAFT  
RT AIRCRAFT  
RYAN MILITARY AIRCRAFT  
USE RYAN AIRCRAFT

RYDBERG SERIES  
1411 2401  
BT ELECTROMAGNETIC SPECTRA  
H LINES  
LINE SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
ATOMIC SPECTRA  
ELECTRON TRANSITIONS  
EMISSION SPECTRA  
HYDROGEN

RSD AIRCRAFT  
USE C-54 AIRCRAFT

R7V AIRCRAFT  
USE C-121 AIRCRAFT  
EC-121 AIRCRAFT

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# S

S-2 AIRCRAFT  
0207  
UF SNOW AERIAL APPLICATOR AIRCRAFT  
S-2B  
SNOW S-2 AIRCRAFT  
BT MONOPLANES  
UTILITY AIRCRAFT  
S-3 AIRCRAFT  
0201 0207  
BT ANTISUBMARINE WARFARE AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
RT MILITARY AIRCRAFT  
S BAND  
USE SUPERHIGH FREQUENCIES  
ULTRAHIGH FREQUENCIES  
S CURVES  
1902  
NT GONPERTZ CURVES  
BT ANALYTIC GEOMETRY  
CURVES (GEOMETRY)  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
S GLASS  
1804 1805  
BT GLASS  
RT SILICON DIOXIDE  
S-58 HELICOPTER  
0206 0207  
UF SIKORSKY S-58 HELICOPTER  
BT SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
RT CH-34 HELICOPTER  
SH-34 HELICOPTER  
UH-34 HELICOPTER  
S-61 HELICOPTER  
0206 0207  
UF SIKORSKY S-61 HELICOPTER  
BT HELICOPTERS  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
RT CH-3 HELICOPTER  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
WATER TAKEOFF AND LANDING AIRCRAFT  
S-64 HELICOPTER  
USE CH-54 HELICOPTER  
S MATRIX THEORY  
1902  
UF SCATTERING MATRIX  
RT OPERATORS (MATHEMATICS)  
SCATTERING CROSS SECTIONS  
THEORIES  
S-N DIAGRAMS  
1108 1704 2308 2311 3204  
UF FATIGUE DIAGRAMS  
BT DIAGRAMS  
RT BENDING FATIGUE  
CYCLIC LOADS  
FATIGUE (MATERIALS)  
FATIGUE LIFE  
FATIGUE TESTS  
METAL FATIGUE  
STRESS ANALYSIS  
STRESS CYCLES  
STRESS MEASUREMENT  
STRESS RATIO  
S-3 SATELLITE  
USE EXPLORER 12 SATELLITE  
S-6 SATELLITE  
USE EXPLORER 17 SATELLITE  
S-16 SATELLITE  
USE OSO-1  
S-17 SATELLITE  
USE OSO-B  
S-18 SATELLITE  
USE OAO  
S-27 SATELLITE  
USE ALOUETTE 1 SATELLITE  
S-46 SATELLITE  
USE EXPLORER S-46  
S-49 SATELLITE  
USE OGO-A  
S-50 SATELLITE  
USE OGO-C  
S-51 SATELLITE  
USE ARIEL 1 SATELLITE

S-52 SATELLITE  
USE ARIEL 2 SATELLITE  
S-57 SATELLITE  
USE OSO-C  
S-66 SATELLITE  
USE BEACON EXPLORER A  
S-74 SATELLITE  
USE EXPLORER 18 SATELLITE  
S WAVES  
1202 1203 2309 2401 2402 2403  
UF SECONDARY WAVES  
SHEAR DISTURBANCES  
SHEAR WAVES  
BT #ELASTIC WAVES  
RT DILATATIONAL WAVES  
P WAVES  
POLARIZED ELASTIC WAVES  
RAYLEIGH WAVES  
SEISMIC WAVES  
#SURFACE WAVES  
TRANSVERSE WAVES  
SA-330 HELICOPTER  
0206  
UF SUD AVIATION SA-330 HELICOPTER  
BT ALOUETTE HELICOPTERS  
HELICOPTERS  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
#SUD AVIATION AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
SA-3210 HELICOPTER  
0206  
UF SUD AVIATION SA-3210 HELICOPTER  
BT HELICOPTERS  
MILITARY HELICOPTERS  
ROTARY WING AIRCRAFT  
#SUD AVIATION AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
RT PASSENGER AIRCRAFT  
SAAB 401 AIR CUSHION VEHICLE  
0205  
BT GROUND EFFECT MACHINES  
SAAB AIRCRAFT  
RT AMPHIBIOUS AIRCRAFT  
SAAB AIRCRAFT  
0201 0204 0207  
NT SAAB 401 AIR CUSHION VEHICLE  
SAAB 37 AIRCRAFT  
SAAB 91 AIRCRAFT  
SAAB 105 AIRCRAFT  
RT AIRCRAFT  
SAAB 37 AIRCRAFT  
0207  
BT #JET AIRCRAFT  
SAAB AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TURBOPAN AIRCRAFT  
RT CANARD CONFIGURATIONS  
HARRIER AIRCRAFT  
SAAB 91 AIRCRAFT  
0207  
UF SAFIR AIRCRAFT  
BT LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
SAAB AIRCRAFT  
SAAB 105 AIRCRAFT  
0207  
BT #JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
SAAB AIRCRAFT  
TURBOPAN AIRCRAFT  
UTILITY AIRCRAFT  
RT PASSENGER AIRCRAFT  
SABATIER REACTION  
1407 2306  
BT #CHEMICAL REACTIONS  
RT PHOTOGRAPHIC FILM  
SABOT PROJECTILES  
3102 3401  
BT PROJECTILES  
RT ARTILLERY  
FRAGMENTATION  
GUN LAUNCHERS  
GUNS (ORDNANCE)  
SABRE AIRCRAFT  
USE F-86 AIRCRAFT  
SABRELINER AIRCRAFT  
USE T-39 AIRCRAFT

SACCHARIDES  
USE #CARBOHYDRATES  
SACCHARONICES  
0407  
BT FUNGI  
#PLANTS (BOTANY)  
SADDLE POINTS (GAME THEORY)  
1902  
BT GAME THEORY  
OPERATIONS RESEARCH  
#RESEARCH  
RT SADDLES  
SADDLES  
1902  
RT SADDLE POINTS (GAME THEORY)  
SADDLES (SUPPORTS)  
SADDLES (SUPPORTS)  
3203  
BT #STRUCTURAL MEMBERS  
SUPPORTS  
RT SADDLES  
SAFE GUARD SYSTEM  
3101 3401  
BT MISSILE SYSTEMS  
RT ANTI-MISSILE DEFENSE  
BALLISTIC MISSILES  
MILITARY TECHNOLOGY  
MISSILE DEFENSE  
SENTINEL SYSTEM  
SYSTEMS  
SAFETY  
3406  
NT AIRCRAFT SAFETY  
FLIGHT SAFETY  
INDUSTRIAL SAFETY  
RANGE SAFETY  
REACTOR SAFETY  
RT ACCIDENT PREVENTION  
ACCIDENTS  
#CRASHES  
DETECTORS  
EMERGENCY LIFE SUSTAINING SYSTEMS  
#EXPLOSIONS  
FIRE PREVENTION  
FIREPROOFING  
FIRES  
#HAZARDS  
PREVENTION  
#PROTECTION  
SAFETY DEVICES  
SAFETY MANAGEMENT  
STORAGE  
WARNING  
#WARNING SYSTEMS  
SAFETY DEVICES  
0203 0508 3404  
NT ABORT APPARATUS  
ARRESTING GEAR  
EJECTION SEATS  
ESCAPE CAPSULES  
ESCAPE ROCKETS  
HELMETS  
SEAT BELTS  
SPACE SUITS  
RT ACCIDENT PREVENTION  
ACCIDENT PRONESS  
ACCIDENTS  
AIRCRAFT SAFETY  
AMBULANCES  
ANTI-SKID DEVICES  
AUTOMOBILE ACCIDENTS  
BARRIERS  
DEFLECTORS  
DEVICES  
EMERGENCY LIFE SUSTAINING SYSTEMS  
ENCLOSURES  
EQUIPMENT  
FAIL-SAFE SYSTEMS  
FIRE PREVENTION  
FLAME DEFLECTORS  
FLIGHT SAFETY  
GATES (OPENINGS)  
GUARDS (SHIELDS)  
HARNESSES  
#HAZARDS  
HUMAN FACTORS ENGINEERING  
#LANDING AIDS  
PRESSURE SUITS  
#PROTECTION  
PROTECTIVE CLOTHING  
PROTECTORS  
RADIATION MEASURING INSTRUMENTS



## SAFETY FACTORS

RADIATION SHIELDING  
 SAFETY  
 SAFETY MANAGEMENT  
 #SHIELDING  
 SPACECRAFT SHIELDING  
 WARNING  
 #WARNING SYSTEMS  
 SAFETY FACTORS  
 0502 0505 1103 1905  
 RT ACCIDENT PRONESS  
 ESCAPE SYSTEMS  
 #HAZARDS  
 HEALTH PHYSICS  
 RELIABILITY  
 #STABILITY  
 SAFETY HAZARDS  
 USE #HAZARDS  
 SAFETY MANAGEMENT  
 0410 0502 0506 0507 0508 3404 3406 3409  
 BT #MANAGEMENT  
 RT ACCIDENT PREVENTION  
 #EDUCATION  
 FAIL-SAFE SYSTEMS  
 FIRE PREVENTION  
 GUARDS (SHIELDS)  
 #HAZARDS  
 HUMAN FACTORS ENGINEERING  
 PRODUCTION MANAGEMENT  
 SAFETY  
 SAFETY DEVICES  
 #WARNING SYSTEMS  
 SAFIR AIRCRAFT  
 USE SAAB 91 AIRCRAFT  
 SAGE AIR DEFENSE SYSTEM  
 3401  
 BT AIR DEFENSE  
 SAGITTARIUS CONSTELLATION  
 3001  
 BT CONSTELLATIONS  
 SAHA EQUATIONS  
 1002 2404 3304  
 RT ARC HEATING  
 ELECTRIC ARCS  
 EQUATIONS  
 ION DENSITY (CONCENTRATION)  
 IONIZATION POTENTIALS  
 #TEMPERATURE  
 SAILPLANES  
 USE #GLIDERS  
 SAILS  
 0101 3006  
 NT SAILWINGS  
 SOLAR SAILS  
 RT FINS  
 #GLIDERS  
 TAIL ASSEMBLIES  
 SAILWINGS  
 0201 0205  
 UP PRINCETON SAILWINGS  
 BT FOLDING STRUCTURES  
 SAILS  
 RT #GLIDERS  
 SAINT ELMO FIRE  
 0605 2304  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 RT FIRES  
 SAINT VENANT FLEXURE PROBLEM  
 USE SAINT VENANT PRINCIPLE  
 SAINT VENANT PRINCIPLE  
 3203  
 UP SAINT VENANT FLEXURE PROBLEM  
 ST VENANT FLEXURE PROBLEM  
 RT PLASTIC DEFORMATION  
 STATIC DEFORMATION  
 STATIC LOADS  
 STRESS ANALYSIS  
 STRESS CONCENTRATION  
 TEMPERATURE INVERSIONS  
 SALICYLATES  
 0403 0603 1808  
 NT SODIUM SALICYLATES  
 RT ACETYSALICYLIC ACID  
 #DRUGS  
 #ESTERS  
 SALINITY  
 0601 0603  
 BT #CHEMICAL PROPERTIES  
 RT BRINES  
 DESALINIZATION  
 SEA WATER

SALIVA  
 0403 0405  
 BT #BODY FLUIDS  
 RT #DIGESTIVE SYSTEM  
 MUCOUS  
 SALIVARY GLANDS  
 SALIVARY GLANDS  
 0404  
 UP PAROTID GLAND  
 BT #ANATOMY  
 GLANDS (ANATOMY)  
 RT MOUTH  
 SALIVA  
 SALMONELLA  
 0407 0412  
 BT BACTERIA  
 #MICROORGANISMS  
 #PLANTS (BOTANY)  
 SALT BATHS  
 0603 2601  
 BT BATHS  
 RT BRINES  
 #HEAT TREATMENT  
 SALT SPRAY TESTS  
 1108  
 BT #CHEMICAL TESTS  
 CORROSION TESTS  
 #ENVIRONMENTAL TESTS  
 TESTS  
 RT CORROSION  
 CORROSION RESISTANCE  
 STRESS CORROSION  
 TESTS  
 SALTS  
 0603 1704 1804 1808  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT HALITES  
 #INORGANIC COMPOUNDS  
 #ORGANIC COMPOUNDS  
 SODIUM CHLORIDES  
 SAMARITAN AIRCRAFT  
 USE C-131 AIRCRAFT  
 SAMARIUM  
 1703  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS  
 SAMARIUM COMPOUNDS  
 0603 1804  
 BT #RARE EARTH COMPOUNDS  
 RT METAL COMPOUNDS  
 SAMARIUM ISOTOPES  
 1703 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 SAMOA  
 1305  
 BT #ISLANDS  
 PACIFIC ISLANDS  
 SAMOS  
 3107 3401  
 BT #SATELLITES  
 SAMPLED DATA  
 USE DATA SAMPLING  
 SAMPLED DATA SYSTEMS  
 USE DATA SAMPLING  
 SAMPLERS  
 0802 1905 1106 1108  
 UP BOMBS (SAMPLERS)  
 SAMPLING DEVICES  
 RT BOMBS  
 CORE SAMPLING  
 SAMPLES  
 SAMPLING  
 SELECTORS  
 TEST EQUIPMENT  
 SAMPLES  
 1505 3406  
 RT ACCEPTABILITY  
 SAMPLERS  
 SAMPLING  
 SAMPLING  
 0802 1902 1905 3404 3407  
 RT AIR SAMPLING  
 CORE SAMPLING  
 DATA SAMPLING  
 PARTICULATE SAMPLING  
 RANDOM SAMPLING  
 RT ALLOWANCES  
 ASSAYING

## NASA TREASURUS (ALPHABETICAL LISTING)

BAYES THEOREM  
 CENSORED DATA (MATHEMATICS)  
 CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 COLLECTION  
 CONCENTRATION (COMPOSITION)  
 CONFIDENCE LIMITS  
 COUNTING  
 ESTIMATING  
 #EXPLORATION  
 HETEROGENEITY  
 HOMOGENEITY  
 INSPECTION  
 #INVESTIGATION  
 PROBABILITY THEORY  
 QUALITY CONTROL  
 RANDOM ERRORS  
 RELIABILITY  
 SAMPLERS  
 SAMPLES  
 #SELECTION  
 SEQUENTIAL ANALYSIS  
 SPECIMENS  
 STANDARDS  
 #STATISTICAL ANALYSIS  
 STATISTICS  
 TESTS  
 VARIABILITY  
 WEIBULL DENSITY FUNCTIONS  
 SAMPLING DEVICES  
 USE SAMPLERS  
 SAN MARCO SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 RT SCOUT LAUNCH VEHICLE  
 SAN MARCO 1 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 SAN MARCO SATELLITES  
 #SATELLITES  
 SAN MARCO 2 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 SAN MARCO SATELLITES  
 #SATELLITES  
 SANDPIPER TARGET MISSILE  
 0201 2102 3401  
 BT MISSILE CONFIGURATIONS  
 #MISSILES  
 RT #DRONE VEHICLES  
 #TARGETS  
 SANDS  
 3405 1805  
 NT MONAZITE SANDS  
 BT EARTH RESOURCES  
 #SOILS  
 RT AGGREGATES  
 #DUST  
 GRAVELS  
 GRIT  
 ILMENITE  
 MOLDING MATERIALS  
 POROUS MATERIALS  
 QUARTZ  
 SANDSTONES  
 SILICA GLASS  
 SILICON DIOXIDE  
 SANDSTONES  
 1305 1805  
 BT EARTH RESOURCES  
 ROCKS  
 SEDIMENTARY ROCKS  
 RT SANDS  
 SCHIST  
 #SOILS  
 SANDWICH CONSTRUCTION  
 USE SANDWICH STRUCTURES  
 SANDWICH PLATES  
 USE PLATES (STRUCTURAL MEMBERS)  
 SANDWICH STRUCTURES  
 SANDWICH STRUCTURES  
 3202  
 UP SANDWICH CONSTRUCTION  
 SANDWICH PLATES  
 RT #COMPOSITE MATERIALS

# NASA THESAURUS (ALPHABETICAL LISTING)

HONEYCOMB CORES  
HONEYCOMB STRUCTURES  
INTERLAYERS  
LAMINATES  
MULTILAYER INSULATION  
RIGID STRUCTURES  
STRUCTURES  
WALLS  
SANITATION  
0504 0505  
RT HEALTH  
HYGIENE  
POTABLE WATER  
\*WARNING SYSTEMS  
WASTE DISPOSAL  
SANTOWAX (TRADEMARK)  
1803 1808  
RT POLYSTYRENE  
SAPPHIRE  
1804 1806 2601  
BT \*ALUMINUM COMPOUNDS  
ALUMINUM OXIDES  
\*CHALCOGENIDES  
METAL OXIDES  
OXIDES  
SAPROPHYTES  
0407  
BT \*MICROORGANISMS  
\*PLANTS (BOTANY)  
RT BACTERIA  
SARCINA  
0407  
BT BACTERIA  
\*MICROORGANISMS  
\*PLANTS (BOTANY)  
SARCONA  
USE CANCER  
SAS  
USE SMALL ASTRONOMY SATELLITES  
SAS-A  
3001 3009 3107  
BT ARTIFICIAL SATELLITES  
\*SATELLITES  
RT RADIO ASTRONOMY  
SPACEBORNE ASTRONOMY  
SAS-B  
3001 3009 3107  
BT ARTIFICIAL SATELLITES  
\*SATELLITES  
RT RADIO ASTRONOMY  
SPACEBORNE ASTRONOMY  
SAS-C  
3001 3009 3107  
BT ARTIFICIAL SATELLITES  
\*SATELLITES  
RT RADIO ASTRONOMY  
SPACEBORNE ASTRONOMY  
X RAY ASTRONOMY  
SAS-D  
3001 3009 3107  
BT ARTIFICIAL SATELLITES  
\*SATELLITES  
RT RADIO ASTRONOMY  
SPACEBORNE ASTRONOMY  
ULTRAVIOLET RADIATION  
SATAN (SENSOR)  
USE TERRAIN ANALYSIS  
SATELLITE ANTENNAS  
0901  
BT ANTENNAS  
RT FURLABLE ANTENNAS  
RADIO ANTENNAS  
\*TELECOMMUNICATION  
SATELLITE ATTITUDE CONTROL  
0101 2102 3006 3107  
BT \*ATTITUDE CONTROL  
SATELLITE CONTROL  
\*SPACECRAFT CONTROL  
ATTITUDE STABILITY  
RT \*AUTOMATIC CONTROL  
DIRECTIONAL CONTROL  
GRAVITY GRADIENT SATELLITES  
JET CONTROL  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
MARQUARDT RAD ENGINE  
SATELLITE ORIENTATION  
TRANSIT ATTITUDE CONTROL SATELLITE  
SATELLITE ATTITUDE DISTURBANCE  
USE ATTITUDE STABILITY  
SPACECRAFT STABILITY

SATELLITE-BORNE PHOTOGRAPHY  
1407 1410 3107  
BT \*IMAGERY  
\*PHOTOGRAPHY  
RT SPACEBORNE PHOTOGRAPHY  
AERIAL PHOTOGRAPHY  
ASTRONOMICAL PHOTOGRAPHY  
BLACK AND WHITE PHOTOGRAPHY  
FOREST FIRE DETECTION  
GEOGRAPHIC APPLICATIONS PROGRAM  
INFRARED PHOTOGRAPHY  
ROCKET-BORNE PHOTOGRAPHY  
SPACE SURVEILLANCE (SPACEBORNE)  
SPECTRAL RECONNAISSANCE  
TIMBER INVENTORY  
SATELLITE-BORNE RADAR  
0705 0706 0707 1410 3107  
BT \*RADAR  
RT RADAR DETECTION  
SEARCH RADAR  
SURVEILLANCE RADAR  
TRACKING RADAR  
SATELLITE COMMUNICATIONS  
USE SPACECRAFT COMMUNICATION  
SATELLITE COMMUNICATIONS SHIPS  
1106  
UP USNS KINGSPORT  
BT SHIPS  
\*SURFACE VEHICLES  
\*WATER VEHICLES  
RT SATELLITE OBSERVATION  
SATELLITE TRACKING  
SATELLITE TRANSMISSION  
SPACECRAFT COMMUNICATION  
SATELLITE CONFIGURATIONS  
0101 3009 3107 3203  
BT SPACECRAFT CONFIGURATIONS  
RT AERODYNAMIC CONFIGURATIONS  
SATELLITE CONTROL  
0707 1410 2102 3006 3107  
NT SATELLITE ATTITUDE CONTROL  
BT \*SPACECRAFT CONTROL  
RT \*ATTITUDE CONTROL  
\*AUTOMATIC CONTROL  
CONTROL  
DIRECTIONAL CONTROL  
GRAVITY GRADIENT SATELLITES  
JET CONTROL  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
MANUAL CONTROL  
REMOTE CONTROL  
SATELLITE GROUND SUPPORT  
SATELLITE GUIDANCE  
THRUST CONTROL  
SATELLITE DESIGN  
3009 3107 3404  
BT SPACECRAFT DESIGN  
RT COMPUTERIZED DESIGN  
PRODUCT DEVELOPMENT  
SATELLITE TEMPERATURE  
SPACECRAFT STRUCTURES  
STRUCTURAL DESIGN  
SYSTEMS ENGINEERING  
SATELLITE DRAG  
0101 1202 1302 3107  
BT DRAG  
\*DYNAMIC CHARACTERISTICS  
RT AERODYNAMIC DRAG  
ELECTROSTATIC DRAG  
FRICTION DRAG  
SATELLITE GROUND SUPPORT  
0709 1102 1109 3107  
RT GROUND SUPPORT EQUIPMENT  
SATELLITE CONTROL  
SATELLITE TRACKING  
SPACECRAFT COMMUNICATION  
SATELLITE GROUND TRACKS  
0709 1109 3107  
RT FLIGHT PATHS  
\*ORBITS  
SATELLITE GUIDANCE  
0707 1410 2102 3006 3107  
BT \*GUIDANCE (MOTION)  
SPACECRAFT GUIDANCE  
RT \*AUTOMATIC CONTROL  
INERTIAL GUIDANCE  
INJECTION GUIDANCE  
LOCATES SYSTEM  
MANUAL CONTROL  
REENTRY GUIDANCE  
RENDEZVOUS GUIDANCE

# SATELLITE ORIENTATION

SATELLITE CONTROL  
SATELLITE NAVIGATION SYSTEMS  
SPACE NAVIGATION  
SATELLITE INSTRUMENTS  
0708 1410 2102 3107  
NT LASER ALTIMETERS  
BT \*SPACECRAFT INSTRUMENTS  
RT \*FLIGHT INSTRUMENTS  
INSTRUMENTS  
\*MEASURING INSTRUMENTS  
SATELLITE INTERCEPTORS  
0709 1109 2102 3107  
RT INTERCEPTORS  
PURSUIT TRACKING  
SATELLITE TRACKING  
SATELLITE LAUNCHING  
USE SPACECRAFT LAUNCHING  
SATELLITE LIFETIME  
3006 3105 3107  
BT LIFE (DURABILITY)  
RT ORBIT DECAY  
SPACECRAFT LAUNCHING  
SPACECRAFT REENTRY  
SATELLITE MANEUVERS  
USE SPACECRAFT MANEUVERS  
SATELLITE NAVIGATION SYSTEMS  
2102 2103  
RT NAVIGATION SATELLITES  
RADAR NAVIGATION  
RADIO NAVIGATION  
SATELLITE GUIDANCE  
SATELLITE ORBITS  
SPACE NAVIGATION  
SATELLITE NETWORKS  
0702 0708 0709 3009 3107  
(NETWORKS INCORPORATING SATELLITES)  
RT COMMUNICATION SATELLITES  
\*MILITARY SPACECRAFT  
MOONIA SATELLITES  
NAVIGATION SATELLITES  
NAVSTAR SATELLITES  
NETWORKS  
\*SATELLITES  
SKINNET SATELLITES  
SPACECRAFT LAUNCHING  
TDR SATELLITES  
SATELLITE OBSERVATION  
1308 2003 2004 3401 3407  
BT OBSERVATION  
RT DIRECT READOUT EQUATORIAL WEATHER  
SAT  
EARTH RESOURCES PROGRAM  
EARTH RESOURCES TECHNOLOGY  
SATELLITES  
ESSA SATELLITES  
METEOROLOGICAL SATELLITES  
NINBUS PROJECT  
NINBUS SATELLITES  
SATELLITE COMMUNICATIONS SHIPS  
\*SATELLITES  
SIRS B SATELLITE  
SPACEBORNE PHOTOGRAPHY  
TIROS OPERATIONAL SATELLITE SYSTEM  
TIROS SATELLITES  
VELA SATELLITES  
SATELLITE ORBIT CALCULATION  
USE ORBIT CALCULATION  
SATELLITE ORBITS  
1904 2102 3006 3107  
(LIMITED TO ORBITS OF ARTIFICIAL  
SATELLITES)  
NT PARKING ORBITS  
POLAR ORBITS  
STATIONARY ORBITS  
TWENTY-FOUR HOUR ORBITS  
BT \*ORBITS  
SPACECRAFT ORBITS  
CIRCULAR ORBITS  
EARTH ORBITS  
ELLIPTICAL ORBITS  
EQUATORIAL ORBITS  
LUNAR ORBITS  
ORBITAL MECHANICS  
ORBITAL POSITION ESTIMATION  
PLANETARY ORBITS  
SATELLITE NAVIGATION SYSTEMS  
SATELLITE PERTURBATION  
\*SATELLITES  
SPACECRAFT LAUNCHING  
TRANSFER ORBITS  
SATELLITE ORIENTATION  
1904 2102 3006 3107

# SATELLITE PERTURBATION

RT IMAGE DISSECTOR TUBES  
SATELLITE ATTITUDE CONTROL  
SATELLITE ROTATION  
SPIN STABILIZATION  
SATELLITE PERTURBATION  
1904 2102 3006 3107  
BT ORBIT PERTURBATION  
#PERTURBATION  
RT GRAVITATIONAL FIELDS  
ORBITAL MECHANICS  
SATELLITE ORBITS  
SPACECRAFT STABILITY  
TERRSTRAL HARMONICS  
SATELLITE RENDEZVOUS  
USE ORBITAL RENDEZVOUS  
SATELLITE ROTATION  
2308 3006 3107  
BT #GYRATION  
ROTATION  
RT SATELLITE ORIENTATION  
SPIN REDUCTION  
SPIN STABILIZATION  
TUMBLING MOTION  
YO-YO DEVICES  
SATELLITE TELEVISION  
0702 0708 1412 3009 3107  
BT #COMMUNICATION EQUIPMENT  
SPACECRAFT TELEVISION  
RT COLOR TELEVISION  
#COMMUNICATION EQUIPMENT  
METEOROLOGICAL SATELLITES  
SPACE PROBES  
STEREOTELEVISION  
TELEVISION CAMERAS  
TELEVISION TRANSMISSION  
SATELLITE TEMPERATURE  
1408 3110  
BT #TEMPERATURE  
RT AMBIENT TEMPERATURE  
RADIATIVE HEAT TRANSFER  
SATELLITE DESIGN  
SOLAR RADIATION SHIELDING  
SPACECRAFT DESIGN  
SPACECRAFT ENVIRONMENTS  
TEMPERATURE DISTRIBUTION  
TEMPERATURE MEASUREMENT  
THERMAL ENVIRONMENTS  
SATELLITE TRACKING  
0709 1109 3006 3107  
BT SPACECRAFT TRACKING  
#TRACKING (POSITION)  
RT CINETHEODOLITES  
GLOBAL TRACKING NETWORK  
MINITRACK SYSTEM  
OPTICAL SATELLITE TRACKING PROGRAM  
PHOTOGRAPHIC TRACKING  
RANGE AND RANGE RATE TRACKING  
SATELLITE COMMUNICATIONS SHIPS  
SATELLITE GROUND SUPPORT  
SATELLITE INTERCEPTORS  
#SATELLITES  
SPACECRAFT LAUNCHING  
STADAN (SATELLITE TRACKING NETWORK)  
TRANSPONDER CONTROL GROUP  
SATELLITE TRACKING AND DATA ACQ NETWORK  
USE STADAN (SATELLITE TRACKING NETWORK)  
SATELLITE TRANSMISSION  
0702 0706 0707 0708 1410 3107  
BT #SIGNAL TRANSMISSION  
#TRANSMISSION  
RT DATA TRANSMISSION  
MULTIPLEXING  
PULSE COMMUNICATION  
RADIO TRANSMISSION  
SATELLITE COMMUNICATIONS SHIPS  
SPACECRAFT TELEVISION  
TDR SATELLITES  
TELEVISION TRANSMISSION  
#SATELLITES  
1901 2004 3001 3006 3104 3107 3110  
(EXCLUDES PLANETS)  
UP MANEUVERABLE SATELLITES  
NT ACTIVE SATELLITES  
AEROS SATELLITE  
ALOUETTE B SATELLITE  
ALOUETTE 1 SATELLITE  
ALOUETTE 2 SATELLITE  
ALOUETTE SATELLITES  
ANNA SATELLITES  
AOSO  
APPLICATIONS TECHNOLOGY SATELLITES  
ARIEL 1 SATELLITE

ARIEL 2 SATELLITE  
ARIEL 3 SATELLITE  
ARIEL SATELLITES  
ARTIFICIAL SATELLITES  
ATS 1  
ATS 2  
ATS 3  
ATS 4  
ATS 5  
ATS 6  
ATS 7  
ATS 8  
AZUR SATELLITE  
BEACON EXPLORER A  
BEACON SATELLITES  
BIOSATELLITE 1  
BIOSATELLITE 2  
BIOSATELLITE 3  
BIOSATELLITES  
COMMUNICATION SATELLITES  
COSMOS 1 SATELLITE  
COSMOS 2 SATELLITE  
COSMOS 3 SATELLITE  
COSMOS 4 SATELLITE  
COSMOS 5 SATELLITE  
COSMOS 6 SATELLITE  
COSMOS 7 SATELLITE  
COSMOS 8 SATELLITE  
COSMOS 11 SATELLITE  
COSMOS 12 SATELLITE  
COSMOS 14 SATELLITE  
COSMOS 15 SATELLITE  
COSMOS 17 SATELLITE  
COSMOS 41 SATELLITE  
COSMOS 44 SATELLITE  
COSMOS 53 SATELLITE  
COSMOS 54 SATELLITE  
COSMOS 55 SATELLITE  
COSMOS 71 SATELLITE  
COSMOS 110 SATELLITE  
COSMOS 137 SATELLITE  
COSMOS 144 SATELLITE  
COSMOS 149 SATELLITE  
COSMOS 166 SATELLITE  
COSMOS 186 SATELLITE  
COSMOS 188 SATELLITE  
COSMOS 206 SATELLITE  
COSMOS 213 SATELLITE  
COSMOS 224 SATELLITE  
COSMOS 225 SATELLITE  
COSMOS SATELLITES  
COURIER SATELLITE  
D-1 SATELLITE  
DEIMOS  
DIADEME SATELLITE  
DIAL SATELLITE  
DIRECT READOUT EQUATORIAL WEATHER  
SAT  
DISCOVERER 5 SATELLITE  
DISCOVERER 6 SATELLITE  
DISCOVERER 15 SATELLITE  
DISCOVERER 17 SATELLITE  
DISCOVERER 18 SATELLITE  
DISCOVERER 29 SATELLITE  
DISCOVERER 30 SATELLITE  
DISCOVERER 31 SATELLITE  
DISCOVERER 32 SATELLITE  
DISCOVERER 36 SATELLITE  
DISCOVERER 38 SATELLITE  
DISCOVERER SATELLITES  
DODGE SATELLITE  
EARLY BIRD SATELLITES  
EARTH RESOURCES TECHNOLOGY  
SATELLITES  
EARTH SATELLITES  
ECHO 1 SATELLITE  
ECHO 2 SATELLITE  
ECHO SATELLITES  
EGO  
ELEKTRON 1 SATELLITE  
ELEKTRON 2 SATELLITE  
ELEKTRON 4 SATELLITE  
ELEKTRON SATELLITES  
ENVIRONMENTAL RESEARCH SATELLITES  
EOSS  
ERS 17  
ERS 18  
ESHO 1 SATELLITE  
ESRO 2 SATELLITE  
ESSA 1 SATELLITE  
ESSA 2 SATELLITE  
ESSA 3 SATELLITE

# NASA TREASURY (ALPHABETICAL LISTING)

ESSA 4 SATELLITE  
ESSA 5 SATELLITE  
ESSA 6 SATELLITE  
ESSA 7 SATELLITE  
ESSA 8 SATELLITE  
ESSA 9 SATELLITE  
ESSA SATELLITES  
EUROPEAN SPACE RESEARCH  
ORGANIZATION SAT  
EUROPEAN 1 SPACECRAFT  
EVASIVE SATELLITES  
EXPLORER S-46 SATELLITE  
EXPLORER S-55 SATELLITE  
EXPLORER S-46  
EXPLORER S-55  
EXPLORER 1 SATELLITE  
EXPLORER 2 SATELLITE  
EXPLORER 3 SATELLITE  
EXPLORER 4 SATELLITE  
EXPLORER 5 SATELLITE  
EXPLORER 6 SATELLITE  
EXPLORER 7 SATELLITE  
EXPLORER 8 SATELLITE  
EXPLORER 9 SATELLITE  
EXPLORER 10 SATELLITE  
EXPLORER 11 SATELLITE  
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EXPLORER 35 SATELLITE  
EXPLORER 36 SATELLITE  
EXPLORER 37 SATELLITE  
EXPLORER 38 SATELLITE  
EXPLORER 39 SATELLITE  
EXPLORER 40 SATELLITE  
EXPLORER 41 SATELLITE  
EXPLORER 42 SATELLITE  
EXPLORER 43 SATELLITE  
EXPLORER SATELLITES  
FR-1 SATELLITE  
GEODETIC SATELLITES  
GEOPHYSICAL SATELLITES  
GEOS-C SATELLITE  
GEOS 1 SATELLITE  
GEOS 2 SATELLITE  
GRAVITY GRADIENT SATELLITES  
GREB 5 SATELLITE  
GREB SATELLITES  
HEOS A SATELLITE  
HEOS B SATELLITE  
HEOS SATELLITES  
IAPETUS  
IMP  
INJUN 1 SATELLITE  
INJUN 2 SATELLITE  
INJUN 3 SATELLITE  
INJUN 4 SATELLITE  
INJUN SATELLITES  
INSPECTOR SATELLITE  
INTELSAT SATELLITES  
IRIS SATELLITES  
ISIS-A  
ISIS-B  
ISIS-C  
ISIS SATELLITES  
ISIS-X  
ITOS 1  
LARGOS SATELLITE  
LINCOLN EXPERIMENTAL SATELLITES  
LOW FREQUENCY TRANSIONOSPHERIC  
SATELLITES  
LUNAR ORBITER

# NASA 'THESAURUS' (ALPHABETICAL LISTING)

LUNAR SATELLITES  
 METEOROLOGICAL SATELLITES  
 MICROMETEOROID EXPLORER SATELLITES  
 MIDAS 2 SATELLITE  
 MIDAS 3 SATELLITE  
 MIDAS 4 SATELLITE  
 MIDAS 5 SATELLITE  
 MIDAS 6 SATELLITE  
 MIDAS 7 SATELLITE  
 MIDAS SATELLITES  
 MOLNIYA SATELLITES  
 MOON  
 NATURAL SATELLITES  
 NAVIGATION SATELLITES  
 NAVSTAR SATELLITES  
 NIMBUS 1 SATELLITE  
 NIMBUS 2 SATELLITE  
 NIMBUS 3 SATELLITE  
 NIMBUS 4 SATELLITE  
 NIMBUS 5 SATELLITE  
 NIMBUS 6 SATELLITE  
 NIMBUS SATELLITES  
 OAO  
 OGO  
 OGO-A  
 OGO-B  
 OGO-C  
 OGO-D  
 OGO-E  
 OGO-F  
 ORBIS  
 ORBIS CAL SATELLITE  
 ORBITAL WORKSHOPS  
 OSO  
 OSO-B  
 OSO-C  
 OSO-D  
 OSO-E  
 OSO-F  
 OSO-G  
 OSO-H  
 OSO-1  
 OSO-2  
 OSO-3  
 OUTER PLANETS EXPLORERS  
 OV-1 SATELLITES  
 OV-2 SATELLITES  
 OV-3 SATELLITES  
 OV-4 SATELLITES  
 OV-5 SATELLITES  
 PAGEOS SATELLITE  
 PAS  
 PASSIVE SATELLITES  
 PEGASUS SATELLITES  
 PHOBOS  
 POGO  
 POLYOT SATELLITES  
 PROTON 1 SATELLITE  
 PROTON 2 SATELLITE  
 PROTON 3 SATELLITE  
 PROTON 4 SATELLITE  
 PROTON SATELLITES  
 RADIO ASTRONOMY EXPLORER SATELLITE  
 RELAY 1 SATELLITE  
 RELAY 2 SATELLITE  
 RELAY SATELLITES  
 SAMOS  
 SAN MARCO SATELLITE  
 SAN MARCO 1 SATELLITE  
 SAN MARCO 2 SATELLITE  
 SAS-A  
 SAS-B  
 SAS-C  
 SAS-D  
 SCIENTIFIC SATELLITES  
 SCORE SATELLITE  
 SIRS B SATELLITE  
 SKYNET SATELLITES  
 SMALL ASTRONOMY SATELLITES  
 SMALL SCIENTIFIC SATELLITES  
 SNAPSHOT SATELLITE  
 SOLAR RADIATION 1 SATELLITE  
 SOLAR RADIATION 3 SATELLITE  
 SPUTNIK 1 SATELLITE  
 SPUTNIK 2 SATELLITE  
 SPUTNIK 3 SATELLITE  
 SPUTNIK 4 SATELLITE  
 SPUTNIK 5 SATELLITE  
 SPUTNIK 6 SATELLITE  
 SPUTNIK 7 SATELLITE  
 SPUTNIK 8 SATELLITE  
 SPUTNIK SATELLITES

SYNCHRONOUS METEOROLOGICAL  
 SATELLITE  
 SYNCHRONOUS SATELLITES  
 SYNCOM 1 SATELLITE  
 SYNCOM 2 SATELLITE  
 SYNCOM 3 SATELLITE  
 SYNCOM SATELLITES  
 TD-1 SATELLITE  
 TDR SATELLITES  
 TELSTAR 1 SATELLITE  
 TELSTAR 2 SATELLITE  
 TELSTAR SATELLITES  
 TIROS M  
 TIROS 1 SATELLITE  
 TIROS 2 SATELLITE  
 TIROS 3 SATELLITE  
 TIROS 4 SATELLITE  
 TIROS 5 SATELLITE  
 TIROS 6 SATELLITE  
 TIROS 7 SATELLITE  
 TIROS 8 SATELLITE  
 TIROS 9 SATELLITE  
 TIROS 10 SATELLITE  
 TIROS SATELLITES  
 TRANSIT 1A SATELLITE  
 TRANSIT 2A SATELLITE  
 TRANSIT 4A SATELLITE  
 TRANSIT 5A SATELLITE  
 TRANSIT ATTITUDE CONTROL SATELLITE  
 TRANSIT 1B SATELLITE  
 TRANSIT 3B SATELLITE  
 TRANSIT 4B SATELLITE  
 TRANSIT SATELLITES  
 UK 4 SATELLITE  
 VANGUARD 1 SATELLITE  
 VANGUARD 2 SATELLITE  
 VANGUARD 3 SATELLITE  
 VANGUARD SATELLITES  
 VELA SATELLITES  
 VENERA 4 SATELLITE  
 VENERA 5 SATELLITE  
 VENERA 6 SATELLITE  
 VENERA SATELLITES  
 ASTRONAUTICS  
 CYLINDRICAL ANTENNAS  
 HALO ORBIT SPACE STATION  
 #INTERPLANETARY SPACECRAFT  
 #LUNAR SPACECRAFT  
 #MANNED SPACECRAFT  
 MARK 1 SPACECRAFT  
 #MILITARY SPACECRAFT  
 ORBITAL MECHANICS  
 #ORBITS  
 RECOVERABLE SPACECRAFT  
 RENDEZVOUS SPACECRAFT  
 SATELLITE NETWORKS  
 SATELLITE OBSERVATION  
 SATELLITE ORBITS  
 SATELLITE TRACKING  
 #SPACE CAPSULES  
 SPACE PROBES  
 SPACE STATIONS  
 SPACECRAFT  
 SPACECRAFT LAUNCHING  
 SPIN STABILIZATION  
 SYNCHRONOUS COMMUNICATIONS  
 SATELLITE PROJ  
 UNIDENTIFIED FLYING OBJECTS  
 #UNMANNED SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
 SATELLOIDS  
 3107 3110  
 RT ARTIFICIAL SATELLITES  
 ORBITAL MECHANICS  
 PARKING ORBITS  
 SPACECRAFT  
 SUSTAINER ROCKET ENGINES  
 SATURABLE REACTORS  
 2204  
 UF SR (REACTORS)  
 RT MAGNET COILS  
 MAGNETIC AMPLIFIERS  
 MAGNETIC CIRCUITS  
 MAGNETIC CORES  
 MAGNETIC SWITCHING  
 POWER REACTORS  
 TRANSFORMERS  
 SATURATED HYDROCARBONS  
 USE ALKANES  
 SATURATION  
 0601 0603 2003 3407  
 (USE OF A MORE SPECIFIC TERM IS

# SATURN 2 LAUNCH VEHICLES

RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CONCENTRATION (COMPOSITION)  
 CONDENSING  
 DESATURATION  
 PENETRATION  
 PERHEATING  
 PRECIPITATION (CHEMISTRY)  
 PRECIPITATION (METEOROLOGY)  
 WETTING  
 SATURN  
 3110 3409  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT SATURN (PLANET)  
 SATURN LAUNCH VEHICLES  
 SATURN PROJECT  
 SATURN (PLANET)  
 3001 3008  
 RT SATURN RINGS  
 BT #CELESTIAL BODIES  
 PLANETS  
 RT IAPETUS  
 SATURN  
 SATURN 1B LAUNCH VEHICLES  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 RT R-1 ENGINE  
 J-2 ENGINE  
 M-1 ENGINE  
 SATURN S-4B STAGE  
 SATURN S-1 STAGE  
 SATURN D LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 RT RL-10-A-3 ENGINE  
 SATURN LAUNCH VEHICLES  
 3103  
 RT SATURN 1B LAUNCH VEHICLES  
 SATURN D LAUNCH VEHICLE  
 SATURN 1 LAUNCH VEHICLES  
 SATURN 2 LAUNCH VEHICLES  
 SATURN 5 LAUNCH VEHICLES  
 SATURN 1 SA-1 LAUNCH VEHICLE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 SATURN 1 SA-5 LAUNCH VEHICLE  
 SATURN 1 SA-6 LAUNCH VEHICLE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 RT APOLLO PROJECT  
 F-1 ROCKET ENGINE  
 RL-10 ENGINES  
 SATURN  
 SATURN PROJECT  
 SATURN 1 LAUNCH VEHICLES  
 3103  
 RT SATURN 1 SA-1 LAUNCH VEHICLE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 SATURN 1 SA-5 LAUNCH VEHICLE  
 SATURN 1 SA-6 LAUNCH VEHICLE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 RT R-1 ENGINE  
 M-1 ENGINE  
 SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 2 LAUNCH VEHICLES  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES

# SATURN 5 LAUNCH VEHICLES

#ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 5 LAUNCH VEHICLES  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 RT J-2 ENGINE  
 SATURN S-1B STAGE  
 SATURN S-4B STAGE  
 SATURN S-2 STAGE  
 SATURN PROJECT  
 3004 3102 3103 3110 3409  
 BT NASA PROGRAMS  
 #PROGRAMS  
 PROJECTS  
 RT APOLLO APPLICATIONS PROGRAM  
 APOLLO SPACECRAFT  
 CENTAUR LAUNCH VEHICLE  
 #LAUNCH VEHICLES  
 LUNAR LAUNCH  
 PEGASUS SATELLITES  
 RIFT (REACTOR IN FLIGHT TEST)  
 SATURN  
 SATURN LAUNCH VEHICLES  
 VOYAGER PROJECT  
 SATURN RINGS  
 3003 3008  
 BT SATURN (PLANET)  
 RT #CELESTIAL BODIES  
 NATURAL SATELLITES  
 PLANETARY ATMOSPHERES  
 PLANETARY COMPOSITION  
 PLANETARY SURFACES  
 PLANETARY TEMPERATURE  
 PLANETOLOGY  
 PLANETS  
 RINGS  
 SOLAR SYSTEM  
 SATURN S-1B STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN 5 LAUNCH VEHICLES  
 SATURN S-4B STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN 1B LAUNCH VEHICLES  
 SATURN 5 LAUNCH VEHICLES  
 SATURN S-1C STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN S-1 STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN S-2 STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN 1B LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 SATURN 1 SA-1 LAUNCH VEHICLE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 SATURN 1 SA-5 LAUNCH VEHICLE  
 SATURN 1 SA-6 LAUNCH VEHICLE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 SATURN S-2 STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN 5 LAUNCH VEHICLES  
 SATURN S-4 STAGE  
 3103  
 BT #ROCKET VEHICLES  
 SATURN STAGES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN 1 LAUNCH VEHICLES  
 SATURN 1 SA-1 LAUNCH VEHICLE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 SATURN 1 SA-5 LAUNCH VEHICLE

SATURN 1 SA-6 LAUNCH VEHICLE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 SATURN 1 SA-1 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-2 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-3 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-4 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-5 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-6 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-7 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-8 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-9 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES  
 SATURN 1 LAUNCH VEHICLES  
 RT SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN 1 SA-10 LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SATURN LAUNCH VEHICLES

# NASA THESAURUS (ALPHABETICAL LISTING)

SATURN 1 LAUNCH VEHICLES  
 SATURN S-1 STAGE  
 SATURN S-4 STAGE  
 SATURN STAGES  
 3103  
 RT SATURN S-1B STAGE  
 SATURN S-4B STAGE  
 SATURN S-1C STAGE  
 SATURN S-1 STAGE  
 SATURN S-2 STAGE  
 SATURN S-4 STAGE  
 BT #ROCKET VEHICLES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SATURN 1 WORKSHOP  
 3109  
 RT AIRLOCK MODULES  
 APOLLO APPLICATIONS PROGRAM  
 APOLLO PROJECT  
 MULTIPLE DOCKING ADAPTERS  
 SPACE STATIONS  
 SATURN 5 WORKSHOP  
 3109  
 RT AIRLOCK MODULES  
 APOLLO APPLICATIONS PROGRAM  
 APOLLO PROJECT  
 MULTIPLE DOCKING ADAPTERS  
 SPACE STATIONS  
 SATURN WORKSHOPS  
 3009 3104 3105 3109  
 RT SATURN 1 WORKSHOP  
 SATURN 5 WORKSHOP  
 RT AIRLOCK MODULES  
 APOLLO APPLICATIONS PROGRAM  
 APOLLO PROJECT  
 MULTIPLE DOCKING ADAPTERS  
 SKILAB PROGRAM  
 SPACE STATIONS  
 SAVAGE AIRCRAFT  
 USE A-2 AIRCRAFT  
 SAVANNAH NUCLEAR SHIP  
 2201 2202 3401  
 BT CARGO SHIPS  
 NUCLEAR POWERED SHIPS  
 SHIPS  
 #SURFACE VEHICLES  
 #WATER VEHICLES  
 RT MARINE PROPULSION  
 NUCLEAR PROPULSION  
 SAWS  
 1504  
 BT #CUTTERS  
 #TOOLS  
 RT MACHINE TOOLS  
 SHEARS  
 SAWTOOTH WAVEFORMS  
 0702 0710 1002 1202 2311  
 BT WAVEFORMS  
 RT PULSE AMPLITUDE  
 PULSE DURATION  
 SQUARE WAVES  
 SC-1 AIRCRAFT  
 0201  
 UP SHORT SC-1 AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 RESEARCH AIRCRAFT  
 SHORT AND HARBAND AIRCRAFT  
 TAILLESS AIRCRAFT  
 #V/STOL AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 SC-5 AIRCRAFT  
 0201  
 UP BELFAST AIRCRAFT  
 SHORT BELFAST C MK-1 AIRCRAFT  
 SHORT SC-5 AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 #TRANSPORT AIRCRAFT  
 TURBOPROP AIRCRAFT  
 SC-7 AIRCRAFT  
 0201  
 UP SHORT SC-7 AIRCRAFT  
 SKIVAN AIRCRAFT  
 TURBO-SKIVAN AIRCRAFT  
 BT LIGHT AIRCRAFT  
 MONOPLANES  
 SHORT AND HARBAND AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 RT PASSENGER AIRCRAFT  
 SCALAR MAGNETIC CHARGE  
 USE MAGNETIC CHARGE DENSITY

# NASA THESAURUS (ALPHABETICAL LISTING)

# SCATTERING FUNCTIONS

SCALARS  
1902 2311  
RT TENSOR ANALYSIS  
TENSORS

SCALE  
1406 1408 1702 1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT SCALE (CORROSION)  
SCALE (RATIO)  
TEMPERATURE SCALES  
WEIGHT INDICATORS

SCALE (CORROSION)  
1702  
BT CORROSION  
RT CHEMICAL ATTACK  
DEGRADATION  
DESCALING  
RUSTING  
SCALE  
SCALING  
SCALE (RATIO)  
1902  
BT RATIOS  
RT MAPPING  
SCALE  
SCALE EFFECT  
1202 1203  
RT FORCE DISTRIBUTION  
PARAMETERIZATION  
REYNOLDS NUMBER  
SCALING

SCALE HEIGHT  
1301 1302 1408  
BT #DIMENSIONS  
HEIGHT  
RT #EARTH ATMOSPHERE  
GEOPOTENTIAL HEIGHT  
HEAD (FLUID MECHANICS)

SCALE MODELS  
0101 0201 3009  
BT #MODELS  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT MODELS  
REYNOLDS EQUATION  
SCALING LAWS  
SEMI-SPAN MODELS  
SIMILARITY THEOREM  
SIMILITUDE LAW  
SPACECRAFT MODELS  
WIND TUNNEL MODELS

SCALERS  
0801 0902 0905 1409 3110  
BT #CIRCUITS  
COUNTING CIRCUITS  
RT TENSOR ANALYSIS

SCALING  
0802 1303 1406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CALIBRATING  
ERRORS  
SCALE (CORROSION)  
SCALE EFFECT  
SCALING LAWS

SCALING LAWS  
1902 3203  
BT #LAWS  
RT DIMENSIONAL ANALYSIS  
DIMENSIONLESS NUMBERS  
SCALE MODELS  
SCALING  
SIMILARITY NUMBERS  
WIND TUNNEL CALIBRATION

SCALLOPING  
3407  
RT #EDGES  
ELECTRON BEAMS  
TRAVELING WAVE TUBES

SCANDIUM  
1703  
BT SCANDIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS  
TRANSITION METALS

SCANDIUM COMPOUNDS  
0603 1804  
BT SCANDIUM OXIDES  
BT #RARE EARTH COMPOUNDS

RT GROUP 3B COMPOUNDS  
METAL COMPOUNDS

SCANDIUM ISOTOPES  
1703 2406  
UP SCANDIUM 46  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RARE EARTH ELEMENTS  
SCANDIUM  
TRANSITION METALS

SCANDIUM OXIDES  
0603 1804  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
#RARE EARTH COMPOUNDS  
SCANDIUM COMPOUNDS

SCANDIUM 46  
USE SCANDIUM ISOTOPES  
SCANNER PROJECT  
3409  
BT #PROGRAMS  
PROJECTS  
RT HORIZON SCANNERS  
INFRARED SCANNERS  
#OPTICAL EQUIPMENT

#SCANNERS  
0705 0801 0901 0905 1404 1409  
UP SCANNING DEVICES  
NT FLYING SPOT SCANNERS  
HORIZON SCANNERS  
INFRARED SCANNERS  
OPTICAL SCANNERS  
RT CONICAL SCANNING  
OPTICAL DATA PROCESSING  
#OPTICAL EQUIPMENT  
PANORAMIC SCANNING  
READING  
#SCANNING

#SCANNING  
0705 0802 3407  
NT CONICAL SCANNING  
FREQUENCY SCANNING  
PANORAMIC SCANNING  
RADAR SCANNING  
RADAR TARGET SCATTER SITE PROGRAM  
RT EARTH RESOURCES  
EXAMINATION  
MONITORS  
MULTISPECTRAL BAND SCANNERS  
READING  
#SCANNERS  
SEARCHING  
SURVEILLANCE

SCANNING DEVICES  
USE #SCANNERS

SCAPULA  
0404 0405  
BT #ANATOMY  
BONES  
MUSCULOSKELETAL SYSTEM  
RT ARM (ANATOMY)  
SHOULDERS

SCARFING  
0603 1504 1704  
BT CUTTING  
RT CLEANING  
GRINDING (MATERIAL REMOVAL)  
METAL CUTTING  
SLICING

SCARS  
0404  
BT TISSUES (BIOLOGY)

SCAT  
USE SUPERSONIC COMMERCIAL AIR TRANSPORT

SCATTER PROPAGATION  
0710 2309 2402  
NT IONOSPHERIC P-SCATTER PROPAGATION  
BT ELECTROMAGNETIC WAVE TRANSMISSION  
#TRANSMISSION  
WAVE PROPAGATION  
RT BACKSCATTERING  
FORWARD SCATTERING  
IONOSPHERIC PROPAGATION  
METEOR TRAILS  
RADIO RECEPTION  
RADIO SCATTERING  
RADIO TRANSMISSION  
RADIO WAVES

SCATTERERS  
USE #SCATTERING

#SCATTERING  
0710 2301 2310 2311 3407  
UP SCATTERERS  
BT ACOUSTIC SCATTERING  
ATMOSPHERIC SCATTERING  
BACKSCATTERING  
COHERENT SCATTERING  
COMPTON EFFECT  
ELASTIC SCATTERING  
ELECTROMAGNETIC SCATTERING  
ELECTRON SCATTERING  
FORWARD SCATTERING  
INCOHERENT SCATTERING  
ION SCATTERING  
IONOSPHERIC P-SCATTER PROPAGATION  
LIGHT SCATTERING  
MICROWAVE SCATTERING  
NIE SCATTERING  
NEUTRON SCATTERING  
NUCLEAR SCATTERING  
NUCLEON-NUCLEON SCATTERING  
PROTON SCATTERING  
RADAR SCATTERING  
RAMAN SPECTRA  
RAYLEIGH SCATTERING  
RESONANCE SCATTERING  
REVERBERATION  
THOMSON SCATTERING  
TROPOSPHERIC SCATTERING  
WAVE SCATTERING  
RT X RAY SCATTERING  
ATOMIC COLLISIONS  
BISTATIC REFLECTIVITY  
COLLISION PARAMETERS  
COLLISIONS  
DEEP SCATTERING LAYERS  
DEFLECTION  
#DIFFUSION  
DISPERSING  
#ELECTROMAGNETIC RADIATION  
ENCOUNTERS  
HUYGENS PRINCIPLE  
IMPINGEMENT  
INCIDENT RADIATION  
INELASTIC COLLISIONS  
NEAR FREE PATH  
PARTICLE COLLISIONS  
REFLECTION  
RELEASING  
SCATTEROMETERS  
SHOCK WAVE INTERACTION  
SPREADING  
SPRINKLING  
STATISTICAL DISTRIBUTIONS  
TRANSMITTANCE  
WAVE DEGRADATION  
WAVE DISPERSION  
WAVE INTERACTION

SCATTERING AMPLITUDE  
0710 1002 2309 2402  
BT AMPLITUDES  
RT FADDEEV EQUATIONS  
SCATTERING CROSS SECTIONS  
SCATTERING FUNCTIONS  
WAVE SCATTERING

SCATTERING COEFFICIENTS  
0710 1406 2306 2309 2402  
BT #COEFFICIENTS  
RT ABSORPTIVITY  
ATTENUATION COEFFICIENTS  
FORM FACTORS  
SCATTERING CROSS SECTIONS  
SCATTERING FUNCTIONS

SCATTERING CROSS SECTIONS  
0710 2306 2309 2402  
RT ABSORPTION CROSS SECTIONS  
BORN APPROXIMATION  
CROSS SECTIONS  
IONIZATION CROSS SECTIONS  
NEUTRON CROSS SECTIONS  
POMERANCHUK THEOREM  
RAMSAUER EFFECT  
REGGE POLES  
S MATRIX THEORY  
SCATTERING AMPLITUDE  
SCATTERING COEFFICIENTS  
STOPPING POWER

SCATTERING FUNCTIONS  
0710 1406 2306 2309 2402  
RT FLUX DENSITY  
FUNCTIONS  
RADIANT FLUX DENSITY

## SCATTERING MATRIX

SCATTERING AMPLITUDE  
SCATTERING COEFFICIENTS  
SCATTERING MATRIX  
USE S MATRIX THEORY  
SCATTEROMETERS  
0710 2309 2402  
BT #MEASURING INSTRUMENTS  
BT INSTRUMENTS  
MICROWAVE SCATTERING  
MICROWAVES  
#RADAR  
RADAR SCATTERING  
#SCATTERING  
WAVE SCATTERING  
SCAVENGING  
0403 0411 0602 0603 3404  
BT CLEANING  
DEGASSING  
DEOXIDIZING  
PURIFICATION  
SCENEDESMUS  
0407 0409  
BT ALGAE  
#PLANTS (BOTANY)  
SCF  
USE SELF CONSISTENT FIELDS  
SCHAUER FIXPOINT THEOREM  
1902  
BT #THEOREMS  
BT COMPLEX VARIABLES  
DIFFERENTIAL EQUATIONS  
SCHEDULES  
3406 3409  
BT COUNTDOWN  
SCHEDULING  
3406 3407  
BT PREDICTION ANALYSIS TECHNIQUES  
BT CALENDARS  
CONSECUTIVE EVENTS  
CONTINUITY  
CONTROL  
DECISION THEORY  
#FORECASTING  
FORMALISM  
MATHEMATICAL MODELS  
MISSION PLANNING  
#OPTIMIZATION  
PRODUCTION ENGINEERING  
QUALITY CONTROL  
SEQUENCING  
TASK COMPLEXITY  
TASKS  
TIME SERIES ANALYSIS  
SCHEERLITE  
1806  
BT #CALCIUM COMPOUNDS  
#CHALCOGENIDES  
METAL OXIDES  
#MINERALS  
OXIDES  
#TUNGSTEN COMPOUNDS  
TUNGSTEN OXIDES  
SCHELKUNOFF PRINCIPLE  
0901 1002 2402  
BT ANTENNA RADIATION PATTERNS  
HORN ANTENNAS  
HUYGENS PRINCIPLE  
REFLECTOMETERS  
#REFLECTORS  
SCHIFF BASES  
USE ININES  
SCHIST  
1305 1805 1806  
BT ROCKS  
BT LIMESTONE  
SANDSTONES  
SCHIZOPHRENIA  
0408 0410  
BT #ABNORMALITIES  
#DISEASES  
PSYCHOSES  
BT DEPRESSION  
IRRATIONALITY  
MENTAL HEALTH  
SCHLEICHER AIRCRAFT  
0201  
BT AIRCRAFT  
SCHLEICHER KA-6 SAILPLANE  
USE KA-6 SAILPLANES  
SCHLIEREN PHOTOGRAPHY  
1201 1202 1203 1407 2310  
BT #IMAGERY

#PHOTOGRAPHY  
SHADOWGRAPH PHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
FLOW VISUALIZATION  
HACH-ZEHNDER INTERFEROMETERS  
MOIRE EFFECTS  
SCHMIDT CAMERAS  
1412 2310  
BT CAMERAS  
#OPTICAL EQUIPMENT  
#PHOTOGRAPHIC EQUIPMENT  
#TELESCOPES  
RT ASTRONOMICAL PHOTOGRAPHY  
ASTRONOMICAL TELESCOPES  
BAKER-NUNN CAMERA  
SCHMIDT METHOD  
1902  
BT DIFFERENTIAL EQUATIONS  
INTEGRAL EQUATIONS  
METHODOLOGY  
REAL VARIABLES  
SCHMIDT NUMBER  
1902  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
BT NUSSELT NUMBER  
PRANDTL NUMBER  
SCHOOLS  
0502 3406  
BT #EDUCATION  
INSTRUCTORS  
UNIVERSITIES  
SCHOOLS (FISH)  
0402 1310  
BT FISHES  
BT ICHTHYOLOGY  
SCHOTTKY EFFECT  
USE WORK FUNCTIONS  
SCHREIBERSITE  
1806 3005  
BT #IRON COMPOUNDS  
#MINERALS  
NICKEL COMPOUNDS  
PHOSPHIDES  
#PHOSPHORUS COMPOUNDS  
RT IRON METEORITES  
METEORITIC COMPOSITION  
STONY METEORITES  
SCHROEDINGER EQUATION  
1902 2309 2402  
BT WAVE EQUATIONS  
RT WENTZEL-KRAMER-BRILLOUIN METHOD  
SCHULER TUNING  
0101 1403 2102 2308  
BT TUNING  
BT GYROSCOPIC PENDULUMS  
GYROSCOPIC STABILITY  
INERTIAL NAVIGATION  
SCHUMANN-RUNGE BANDS  
1411 2402  
BT #SPECTRA  
SPECTRAL BANDS  
RT ABSORPTION SPECTRA  
EMISSION SPECTRA  
HERZBERG BANDS  
OXYGEN  
QUANTUM THEORY  
SCHWARTZ INEQUALITY  
1902  
BT INEQUALITIES  
RT #ALGEBRA  
LINEAR TRANSFORMATIONS  
VECTORS (MATHEMATICS)  
SCHWARTZ METHOD  
1902  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
STRESS ANALYSIS  
RT METHODOLOGY  
SCHWARZ-CHRISTOFFEL TRANSFORMATION  
1902  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
RT CONFORMAL MAPPING  
SCHWARZSCHILD ANTENNAS  
0701 0705 0901 0904  
BT ANTENNAS  
#CONDUCTORS  
RT HORNS  
PARABOLIC REFLECTORS  
RADAR ANTENNAS

## NASA THESAURUS (ALPHABETICAL LISTING)

RADIO ANTENNAS  
SCHWARZSCHILD METRIC  
2307 2402 3001  
RT COORDINATE TRANSFORMATIONS  
ESCAPE VELOCITY  
GRAVITATIONAL FIELDS  
#IONIZATION  
LIGHT SPEED  
ORBITALS  
#ORBITS  
RELATIVITY  
SCHWASSMANN-WACHMANN COMET  
3001 3005  
BT #CELESTIAL BODIES  
COMETS  
SCIATIC REGION  
0404  
BT #ANATOMY  
BONES  
MUSCULOSKELETAL SYSTEM  
SCIENCE  
3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT ASTRONOMY  
#GEOLOGY  
LIFE SCIENCES  
#MEDICAL SCIENCE  
#METEOROLOGY  
OCEANOGRAPHY  
PHENOMENOLOGY  
SCIENTIFIC SATELLITES  
3107  
BT APPLICATIONS TECHNOLOGY SATELLITES  
ATS 1  
ATS 2  
ATS 3  
ATS 4  
ATS 5  
ATS 6  
ATS 7  
ATS 8  
AZUR SATELLITE  
DIAL SATELLITE  
ENVIRONMENTAL RESEARCH SATELLITES  
ERS 17  
ERS 18  
HARINER VENUS 67 SPACECRAFT  
ORBIT  
ORBITAL SATELLITE  
OV-1 SATELLITES  
OV-2 SATELLITES  
OV-3 SATELLITES  
OV-4 SATELLITES  
OV-5 SATELLITES  
SMALL SCIENTIFIC SATELLITES  
UK 4 SATELLITE  
BT #SATELLITES  
RT TECHNOLOGY FEASIBILITY SPACECRAFT  
SCIENTISTS  
3404  
BT MANPOWER  
#PERSONNEL  
SCIMITAR AIRCRAFT  
0207  
UP VICKERS SCIMITAR AIRCRAFT  
BT #BAC AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
SCINTILLATION  
0605 0705 2203 3001 3407  
RT GLINT  
PHOSPHORESCENCE  
SCINTILLATION COUNTERS  
SCINTILLATION COUNTERS  
0905 1409 2402 2903 3009  
UP SCINTILLATION SPECTROMETERS  
SCINTILLATORS  
SCINTILLOMETERS  
BT COUNTERS  
#MEASURING INSTRUMENTS  
RADIATION COUNTERS  
CERENKOV COUNTERS  
NEUTRON COUNTERS  
PARTICLE TELESCOPES  
PHOTOMULTIPLIER TUBES  
PHOTOPEAK  
SCINTILLATION  
SCINTILLATION SPECTROMETERS  
USE SCINTILLATION COUNTERS  
SPECTROMETERS

# NASA THESAURUS (ALPHABETICAL LISTING)

SCINTILLATORS  
 USE SCINTILLATION COUNTERS  
 SCINTILLOMETERS  
 USE SCINTILLATION COUNTERS  
 SCISSION  
 USE CLEAVAGE  
 SCOOPS  
 0101 0102 0202 1502 1504 2806  
 RT AIR INTAKES  
 CONVEYORS  
 DUCTS  
 #INTAKE SYSTEMS  
 NOSE INLETS  
 SIDE INLETS  
 WATER INTAKES  
 SCOPOLAMINE  
 USE HYOSCINE  
 SCORE OMNIRANGE  
 USE SELF CALIBRATING OMNIRANGE  
 SCORE SATELLITE  
 0706 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SCORING  
 1905 3407  
 UP SCRIBING  
 RT ABRASION  
 #DEFECTS  
 #FRICTION  
 PITTING  
 WEAR  
 SCORPIO CONSTELLATION  
 USE SCORPIUS CONSTELLATION  
 SCORPIUS CONSTELLATION  
 3001  
 UP SCORPIO CONSTELLATION  
 BT CONSTELLATIONS  
 SCOTCHLITE (TRADEMARK)  
 1805 2310 3404  
 RT MEMBRANE STRUCTURES  
 #REFRACTORY MATERIALS  
 SCOUT HELICOPTER  
 USE P-531 HELICOPTER  
 SCOUT LAUNCH VEHICLE  
 3103  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 RT ALGOL ENGINE  
 EXPLORER S-55 SATELLITE  
 EXPLORER S-55  
 EXPLORER 9 SATELLITE  
 EXPLORER 13 SATELLITE  
 EXPLORER 16 SATELLITE  
 EXPLORER 19 SATELLITE  
 EXPLORER 20 SATELLITE  
 EXPLORER 22 SATELLITE  
 EXPLORER 23 SATELLITE  
 EXPLORER 24 SATELLITE  
 EXPLORER 25 SATELLITE  
 EXPLORER 27 SATELLITE  
 EXPLORER 30 SATELLITE  
 EXPLORER 37 SATELLITE  
 EXPLORER 39 SATELLITE  
 EXPLORER 40 SATELLITE  
 SAN MARCO SATELLITE  
 SCOUT PROJECT  
 SOLID PROPELLANT ROCKET ENGINES  
 TX-354 ENGINE  
 X-248 ENGINE  
 X-254 ENGINE  
 X-259 ENGINE  
 X-258 ENGINES  
 XM-33 ENGINE  
 SCOUT PROJECT  
 3103 3409  
 BT NASA PROGRAMS  
 #PROGRAMS  
 PROJECTS  
 RT BOOSTERS  
 EXPLORER SATELLITES  
 #LAUNCH VEHICLES  
 SCOUT LAUNCH VEHICLE  
 SCR (RECTIFIERS)  
 USE SILICON CONTROLLED RECTIFIERS  
 SCRAM  
 2202 2204  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #MISSILES

SHUTDOWNS  
 SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 SCRAMBLING (COMMUNICATION)  
 0702 0703 3401  
 RT INTELLIGIBILITY  
 SECURITY  
 SIGNAL DISTORTION  
 SIGNAL ENCODING  
 VOCODERS  
 VOICE COMMUNICATION  
 SCRAMJET ENGINES  
 USE SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 SCRAMJETS  
 USE SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 SCRAP  
 0505 0602 1502 1505 3404  
 RT CHIPS  
 DEBRIS  
 METAL PARTICLES  
 #WASTES  
 SCRAPERS  
 1504  
 RT #CUTTERS  
 FILES (TOOLS)  
 HONING  
 SEPARATION  
 SCREEN EFFECT  
 2306 2310  
 RT COMA  
 DIELECTRICS  
 EFFECTS  
 ELECTROMAGNETIC WAVE FILTERS  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 ELECTRON GAS  
 MAGNETOSPHERE  
 SEMICONDUCTORS (MATERIALS)  
 WAVE PROPAGATION  
 SCREENING  
 1502 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT FILTRATION  
 FINES  
 LOUVERS  
 #SELECTION  
 WATER TREATMENT  
 SCREENS  
 0705 0905 1407 2306 2310  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CURTAINS  
 #DISPLAY DEVICES  
 PROTECTORS  
 #SHIELDING  
 SIZING SCREENS  
 WIRE CLOTH  
 SCREW DISLOCATIONS  
 3203  
 BT CRYSTAL DEFECTS  
 CRYSTAL DISLOCATIONS  
 #DEFECTS  
 #DISLOCATIONS (MATERIALS)  
 RT EDGE DISLOCATIONS  
 SCREWS  
 1504  
 (EXCLUDES PROPELLERS AND CRYSTAL  
 DEFECTS)  
 BT #FASTENERS  
 RT ANCHORS (FASTENERS)  
 BOLTS  
 COUPLINGS  
 HOLDERS  
 NUTS  
 NUTS (FASTENERS)  
 STUDS (STRUCTURAL MEMBERS)  
 THREADS  
 SCRIBING  
 USE SCORING  
 SCRUBBERS  
 1502 1504  
 RT CLEANING  
 COLUMNS (PROCESS ENGINEERING)  
 WASHING  
 SCRUBBING  
 USE WASHING  
 SCUTUM CONSTELLATION  
 3001

# SEA STATES

BT CONSTELLATIONS  
 SCYLLA  
 2205  
 BT #PLASMA GENERATORS  
 RT #MAGNETIC FIELDS  
 MAGNETIC MIRRORS  
 MAGNETIC VARIATIONS  
 #PLASMAS (PHYSICS)  
 THERMONUCLEAR REACTIONS  
 SDP (COMPUTERS)  
 USE SITE DATA PROCESSORS  
 SDS 930 COMPUTER  
 0801  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 SDS 900 SERIES COMPUTERS  
 SDS 9300 COMPUTER  
 0801  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 SDS 900 SERIES COMPUTERS  
 0801  
 NT SDS 930 COMPUTER  
 BT COMPUTERS  
 #DATA PROCESSING EQUIPMENT  
 DIGITAL COMPUTERS  
 SE-A  
 USE EXPLORER 30 SATELLITE  
 SE-210 AIRCRAFT  
 0204  
 UP CARAVELLE AIRCRAFT  
 SUD AVIATION SE-210 AIRCRAFT  
 BT #JET AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 #SUD AVIATION AIRCRAFT  
 TURBOFAN AIRCRAFT  
 SE-3160 HELICOPTER  
 0206 0207  
 UP ALOUETTE 3 HELICOPTER  
 SUD AVIATION SE-3160 HELICOPTER  
 BT ALOUETTE HELICOPTERS  
 HELICOPTERS  
 ROTARY WING AIRCRAFT  
 #SUD AVIATION AIRCRAFT  
 #V/STOL AIRCRAFT  
 SEA ICE  
 0603 1310 1803 2003  
 NT ICEBERGS  
 BT #ICE  
 RT FREEZING  
 GLACIERS  
 ICE FORMATION  
 ICE MAPPING  
 LAND ICE  
 OCEANOGRAPHY  
 SEA KING HELICOPTER  
 USE SH-3 HELICOPTER  
 SEA KNIGHT HELICOPTER  
 USE CH-46 HELICOPTER  
 SEA LAUNCHING  
 1104 3102  
 BT #LAUNCHING  
 RT BALLISTIC MISSILE SUBMARINES  
 CATAPULTS  
 DRYDOCKS  
 FLEET BALLISTIC MISSILES  
 MISSILE LAUNCHERS  
 POSEIDON MISSILES  
 ROCKET LAUNCHERS  
 TORPEDOS  
 WATER TAKEOFF AND LANDING AIRCRAFT  
 SEA OF JAPAN  
 1305  
 BT SEAS  
 RT ASIA  
 SEA ROUGHNESS  
 1204 1310  
 BT ROUGHNESS  
 RT OCEAN SURFACE  
 OCEANOGRAPHY  
 SEA STATES  
 #SURFACE WAVES  
 TIDES  
 #TURBULENCE  
 WATER WAVES  
 WIND EFFECTS  
 WIND VELOCITY  
 SEA STATES  
 1204 1310



## SEA URCHINS

BT OCEAN SURFACE  
OCEANOGRAPHY  
SEA ROUGHNESS  
WATER WAVES  
WIND EFFECTS

SEA URCHINS  
0402  
BT #ANIMALS  
INVERTEBRATES

SEA VIXEN AIRCRAFT  
USE DH 110 AIRCRAFT

SEA WATER  
0404 0603 1310  
BT WATER  
RT BRINES  
OCEAN SURFACE  
OCEANOGRAPHY  
SALINITY  
THERMOCLINES  
UNDERWATER PHOTOGRAPHY

SEABAT HELICOPTER  
USE SH-34 HELICOPTER

SEACAT MISSILE  
3101 3401  
BT ANTIAIRCRAFT MISSILES  
#MISSILES  
SURFACE TO AIR MISSILES

SEAHORSE HELICOPTER  
USE UH-34 HELICOPTER

SEALANTS  
USE SEALERS

SEALERS  
0603 1501 1802  
UP SEALANTS  
RT ADHESIVES  
#COATINGS  
DOPES  
FILLERS  
PACKAGING  
PACKINGS (SEALS)  
PAINTS  
SEALING  
SEALS (STOPPERS)  
SEAMS (JOINTS)  
SOLDERS  
VARNISHES

SEALING  
0303 0507 0603 1501 1504  
NT SELF SEALING  
RT ADHESION  
ADHESIVE BONDING  
BINDING  
BLOCKING  
BLOWERS  
#BONDING  
BRAZING  
CAULKING  
CEMENTS  
CLAMPS  
CLOSING  
COATING  
#COATINGS  
CONTAINMENT  
COVERINGS  
ENCAPSULATING  
GLANDS (SEALS)  
JOINING  
LINING PROCESSES  
PACKING  
PACKINGS (SEALS)  
PLUGGING  
RETAINING  
RIVETING  
SEALERS  
SOLDERING  
SPRAYING  
STOPPING  
WATERPROOFING  
#WELDING

SEALS (STOPPERS)  
1501  
NT GASKETS  
GLANDS (SEALS)  
HERMETIC SEALS  
O RING SEALS  
PACKINGS (SEALS)  
PLUGS  
PUMP SEALS

RT AIR LOCKS  
BARRIER LAYERS  
BARRIERS

BLOCKING  
CAPS  
CLOSURES  
CONSTRUCTIONS  
CUFFS  
PLUGGING  
SEALERS  
SPHERICAL CAPS  
TAPES  
#VALVES

SEAMS (JOINTS)  
1507 3203  
BT #JOINTS (JUNCTIONS)  
RT ADHESIVES  
FILLET  
METAL JOINTS  
SEALERS

SEAPLANES  
0201 0203 1204  
BT AMPHIBIOUS AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT

RT AMPHIBIOUS AIRCRAFT  
AMPHIBIOUS VEHICLES  
BULLS (STRUCTURES)  
MONOPLANES

SEARCH PROFILES  
0802 3405  
BT SEARCHING  
RT DATA RETRIEVAL  
INFORMATION RETRIEVAL  
PROFILES

SEARCH RADAR  
0705 0709 3401  
NT NORTH AMERICAN SEARCH AND RANGING  
RADAR  
OVER-THE-HORIZON RADAR

BT #RADAR  
RT AIRPORT SURFACE DETECTION EQUIPMENT  
COHERENT RADAR  
CONTINUOUS WAVE RADAR  
PULSE RADAR  
RADAR DETECTION  
RADAR TRACKING  
SATELLITE-BORNE RADAR  
SIDE-LOOKING RADAR  
SURVEILLANCE RADAR  
TRACKING RADAR  
TRADEX RADAR SYSTEM

SEARCHING  
0705 0709 0802 0803 3405  
NT SEARCH PROFILES  
RT CONICAL SCANNING  
PANORAMIC SCANNING  
RECONNAISSANCE  
RETRIEVAL  
#SCANNING  
#SELECTION

SEARCHLIGHTS  
0203 0904 1101  
BT #LIGHTING EQUIPMENT  
LUMINAIRES

RT AIRPORT LIGHTS  
ABC LAMPS  
BEACONS  
PROJECTORS  
RUNWAY LIGHTS

SEAS  
1305  
NT BALTIC SEA  
BERING SEA  
BLACK SEA  
CARIBBEAN SEA  
CASPIAN SEA  
CHUCKCHI SEA  
MEDITERRANEAN SEA  
NORTH SEA  
OKHOTSK SEA  
RED SEA  
SEA OF JAPAN  
COASTS  
EARTH HYDROSPHERE  
OCEANOGRAPHY  
OCEANS  
THERMAL POLLUTION  
UNDERWATER PHOTOGRAPHY

SEASLUG MISSILE  
3101  
BT ANTIAIRCRAFT MISSILES  
#MISSILES  
SURFACE TO AIR MISSILES

RT SOLID PROPELLANT ROCKET ENGINES

## NASA THESAURUS (ALPHABETICAL LISTING)

SEASONAL VARIATIONS  
USE ANNUAL VARIATIONS

SEASONS  
2001 3001  
BT SUMMER  
WINTER

RT ANNUAL VARIATIONS  
CLIMATOLOGY  
EQUINOXES  
#METEOROLOGY  
SOLAR POSITION  
SOLSTICES  
WEATHER  
WIND VARIATIONS

SEASPRITE HELICOPTER  
USE UH-2 HELICOPTER

SEAT BELTS  
0203 0508  
BT SAFETY DEVICES  
RT BELTS  
HARNESSES  
SEATS

SEATS  
0203 0508  
UP BENCHES  
CHAIRS  
NT BARANY CHAIR  
EJECTION SEATS  
RT COMFORT  
COUCHES  
CUSHIONS  
HARNESSES  
LOUNGES  
PILLOWS  
SEAT BELTS  
SITTING POSITION

SEBACEOUS GLANDS  
0404 0405  
BT #ANATOMY  
GLANDS (ANATOMY)

SEBACIC ACID  
0403 1808  
BT #ACIDS  
#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
FATTY ACIDS  
#ORGANIC COMPOUNDS

SECANTS  
USE TRIGONOMETRIC FUNCTIONS

SECONDARY AIR  
USE AIR

SECONDARY COSMIC RAYS  
2901  
UP MOLIERE FORMULA  
BT COSMIC RAYS  
#IONIZING RADIATION

RT #ATMOSPHERIC RADIATION  
COSMIC RAY ALBEDO  
COSMIC RAY SHOWERS  
ELECTRON DECAY RATE  
ELECTRON PHOTON CASCADES  
ELECTRON PRECIPITATION  
PRIMARY COSMIC RAYS

SECONDARY EMISSION  
2402 2403  
BT #DECAY  
ELECTRON EMISSION  
EMISSION  
PARTICLE EMISSION

RT DYNODES  
ELECTRON IRRADIATION  
FIELD EMISSION  
MONOSCOPES  
MULTIPACTOR DISCHARGES  
PHOTOMULTIPLIER TUBES  
TOWNSEND AVALANCHE

SECONDARY FLOW  
1203  
BT BOUNDARY LAYER FLOW  
#FLUID FLOW  
VISCOUS FLOW

RT COMPRESSIBILITY EFFECTS  
THREE DIMENSIONAL BOUNDARY LAYER  
VORTICES  
VORTICITY

SECONDARY HARMONIC GENERATION  
USE HARMONIC GENERATIONS

SECONDARY INJECTION  
1202 2805 2808  
BT #INJECTION  
RT FLUID INJECTION  
SHOCK WAVE CONTROL

# NASA THESAURUS (ALPHABETICAL LISTING)

SHOCK WAVE PROPAGATION  
 SUPERSONIC FLOW  
 THRUST AUGMENTATION  
 THRUST VECTOR CONTROL

SECONDARY RADAR  
 0702 0705  
 RT #RADAR  
 RT INTERROGATION

SECONDARY WAVES  
 USE S WAVES

#SECRETIONS  
 0404 0405 0408  
 RT ENDOCRINE SECRETIONS  
 ESTROGENS  
 HORMONES  
 INSULIN  
 SWEAT  
 RT #BODY FLUIDS  
 GALL  
 GLANDS (ANATOMY)  
 #METABOLISM  
 SKIN (ANATOMY)

SECTIONS  
 0202 0404 0405 1102 1106 3110 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT CATEGORIES  
 CLASSES  
 SUBDIVISIONS

SECTORS  
 1902 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AREA  
 CIRCLES (GEOMETRY)  
 #REGIONS

SECULAR PERTURBATION  
 USE LONG TERM EFFECTS

SECURITY  
 3401 3405  
 RT CLASSIFYING  
 INTEGRITY  
 POLICE  
 SCRAMBLING (COMMUNICATION)  
 VULNERABILITY

SEDATIVES  
 0403 0405 0408  
 BT #DRUGS  
 RT PENTOBARBITAL  
 PHENOBARBITAL

SEDIMENTARY ROCKS  
 1305 1306  
 RT CARBONACEOUS ROCKS  
 COAL  
 LIMESTONE  
 SANDSTONES  
 SHALES  
 BT ROCKS  
 RT BRECCIA  
 CLAYS  
 DOLOMITE (MINERAL)  
 GYPSUM  
 IGNEOUS ROCKS  
 LAYERS  
 PETROGRAPHY  
 SEDIMENTS  
 #SOILS  
 STRATIGRAPHY

SEDIMENTS  
 0603 1306 1310  
 RT CLAYS  
 #DEPOSITION  
 #DEPOSITS  
 GRAVELS  
 GRIT  
 MUD  
 OCEAN BOTTOM  
 SEDIMENTARY ROCKS  
 SLUDGE

SEEBECK COEFFICIENT  
 USE SEEBECK EFFECT

SEEBECK EFFECT  
 1001 1002 1704 2304 3304  
 UF SEEBECK COEFFICIENT  
 RT PELTIER EFFECTS  
 TEMPERATURE EFFECTS  
 THERMOCOUPLES  
 #THERMODYNAMIC PROPERTIES  
 THERMOELECTRICITY  
 THERMOPHYSICAL PROPERTIES

#TRANSPORT PROPERTIES

SEEDING (INOCULATION)  
 USE INOCULATION

SEEDS  
 0409  
 RT EMBRYOS  
 FARM CROPS  
 GRAINS (FOOD)  
 HOMOTROPY  
 NUTS (FRUITS)  
 #PLANTS (BOTANY)  
 UTRICLE  
 VEGETABLES  
 VIABILITY

SEEKERS  
 USE HOMING DEVICES

SEEPAGE  
 0505  
 RT CANALS  
 DRAINAGE  
 FLOW NETS  
 HYDRODYNAMICS  
 INTRUSION  
 IRRIGATION  
 LEAKAGE  
 LOSSES  
 PENETRATION  
 PERCOLATION  
 PERMEABILITY  
 PIEZOMETERS  
 WATER CONSUMPTION

SEGMENTS  
 1902 3406  
 RT CIRCLES (GEOMETRY)  
 COMPONENTS  
 CURVES (GEOMETRY)  
 LINES (GEOMETRY)  
 RADII

SEGREGATION  
 2401 2403 2405  
 RT CHARACTERISTICS

SEGREGATION  
 USE SEPARATION

SEISMIC ENERGY  
 1306 1308  
 RT ENERGY  
 SEISMIC WAVES  
 STRAIN ENERGY METHODS

SEISMIC WAVES  
 1306 1308  
 UF ELECTROSEISMIC EFFECT  
 RT LOVE WAVES  
 MICROSEISMS  
 RAYLEIGH WAVES  
 BT #ELASTIC WAVES  
 RT DETONATION WAVES  
 DILATATIONAL WAVES  
 EARTH MOVEMENTS  
 EARTHQUAKES  
 GUTENBERG ZONE  
 LARGE APERTURE SEISMIC ARRAY  
 LONGITUDINAL WAVES  
 P WAVES  
 POLARIZED ELASTIC WAVES  
 S WAVES  
 SEISMIC ENERGY  
 SEISMOLOGY  
 SHOCK WAVES  
 #SURFACE WAVES  
 TSUNAMI WAVES  
 UNDERGROUND EXPLOSIONS

SEISMOCARDIOGRAPHY  
 0405 0501  
 (MEASUREMENT OF THE HIGH FREQUENCY  
 VIBRATIONS OF THE HEART)  
 RT BALLISTOCARDIOGRAPHY  
 FIBRILLATION

SEISMOGRAMS  
 1306 1308 1406  
 RT SEISMOGRAPHS

SEISMOGRAPHS  
 1306 1308 1406  
 UF SEISMOMETERS  
 RT LUNAR SEISMOGRAPHS  
 BT #MEASURING INSTRUMENTS  
 #RECORDING INSTRUMENTS  
 VIBRATION METERS  
 RT ACCELEROMETERS  
 ACOUSTIC MEASUREMENTS  
 PHASED ARRAYS  
 SEISMOGRAMS  
 SHOCK MEASURING INSTRUMENTS

## #SELENIUM COMPOUNDS

SEISMOLOGY  
 1306 1308  
 RT EARTH MOVEMENTS  
 EARTHQUAKES  
 #GEOLOGY  
 GEOPHYSICS  
 ISOSTASY  
 LARGE APERTURE SEISMIC ARRAY  
 LUNAR GEOLOGY  
 ROUSE BELTS  
 SEISMIC WAVES

SEISMOMETERS  
 USE SEISMOGRAPHS

SEIZURES  
 0405 0408  
 RT CONVULSIONS  
 CRAMPS

#SELECTION  
 3406 3407  
 UF CHOICE  
 RT PERSONNEL SELECTION  
 PILOT SELECTION  
 RT CERTIFICATION  
 CLASSIFYING  
 COLLECTION  
 DECISIONS  
 EVALUATION  
 FIGURE OF MERIT  
 OPTIONS  
 RANKING  
 REJECTION  
 SAMPLING  
 SCREENING  
 SEARCHING  
 TESTS

SELECTIVE DISSEMINATION OF INFORMATION  
 0803 3405  
 BT INFORMATION DISSEMINATION  
 RT DATA STORAGE  
 DOCUMENTATION  
 INDEXES (DOCUMENTATION)  
 INFORMATION FLOW  
 INFORMATION RETRIEVAL  
 INFORMATION SYSTEMS  
 LIBRARIES  
 MANAGEMENT PLANNING  
 TECHNOLOGY TRANSFER

SELECTIVE FADING  
 0702 0710 2402  
 BT #FADING  
 SIGNAL FADING  
 RT FREQUENCY ANALYZERS  
 GROUND WAVE PROPAGATION  
 #MODULATION  
 SIDEBANDS  
 SIGNAL FADING RATE

SELECTIVITY  
 3407  
 RT #DISCRIMINATION

SELECTORS  
 0902 0904  
 RT ANALYZERS  
 #CIRCUITS  
 ELECTRIC RELAYS  
 SAMPLERS  
 #SWITCHES  
 SWITCHING CIRCUITS

SELENIDES  
 0603 1804  
 RT CADMIUM SELENIDES  
 COPPER SELENIDES  
 GALLIUM SELENIDES  
 LEAD SELENIDES  
 ZINC SELENIDES  
 BT #CHALCOGENIDES  
 #SELENIUM COMPOUNDS

SELENIUM  
 1703  
 BT #CHEMICAL ELEMENTS

SELENIUM ALLOYS  
 1701 1703 0603  
 BT #ALLOYS

#SELENIUM COMPOUNDS  
 0603 1804  
 RT CADMIUM SELENIDES  
 COPPER SELENIDES  
 GALLIUM SELENIDES  
 LEAD SELENIDES  
 SELENIDES  
 SELENIUM OXIDES  
 ZINC SELENIDES  
 RT GROUP 6A COMPOUNDS

# SELENIUM OXIDES

## SELENIUM OXIDES

0603 1804

BT #CHALCOGENIDES  
OXIDES

#SELENIUM COMPOUNDS

## SELENOGRAPHY

3001 3004

RT LUNAR CRATERS  
LUNAR CRUST  
LUNAR LANDING SITES  
LUNAR MAPS  
LUNAR MOBILE LABORATORIES  
LUNAR RAYS  
LUNAR ROCKS  
LUNAR TOPOGRAPHY  
MOON  
SELENOLOGY  
#SURFACE PROPERTIES

## SELENOLOGY

3001 3004

NT LUNAR CORE  
RT ASTRONOMY  
LUNAR COMPOSITION  
LUNAR CRATERS  
LUNAR CRUST  
LUNAR DUST  
LUNAR EVOLUTION  
LUNAR ROCKS  
LUNAR TOPOGRAPHY  
MOON  
SELENOGRAPHY

## SELF ABSORPTION

1411 2306 2402

BT #ENERGY ABSORPTION  
#RADIATION ABSORPTION  
RT ABSORPTION  
ABSORPTION SPECTRA  
ABSORPTIVITY  
#AUTOMATIC CONTROL  
#DIFFUSION  
RADIATION

## SELF ADAPTIVE CONTROL SYSTEMS

0802 1003 1905 2102

BT ADAPTIVE CONTROL  
#AUTOMATIC CONTROL  
RT AUTOMATA THEORY  
AUTONOMY  
CONTROL  
SELF ALIGNMENT

## SELF ALIGNMENT

0203 1003 2102

BT ALIGNMENT  
#AUTOMATIC CONTROL  
RT ADAPTIVE CONTROL  
LANDING GEAR  
SELF ADAPTIVE CONTROL SYSTEMS  
SELF ERECTING DEVICES  
SERVOMECHANISMS

## SELF BIAS

USE BIAS

## SELF CALIBRATING OMNIRANGE

0705 1410 2102 2103 2104

UP SCORE OMNIRANGE  
BT BEACONS  
#NAVIGATION AIDS  
OMNIDIRECTIONAL RADIO RANGES  
RADIO BEACONS  
#RADIO EQUIPMENT  
RADIO TRANSMITTERS  
#TRANSMITTERS

## SELF CONSISTENT FIELDS

2304 2307 2402 2502 2601

UP SCF  
RT FIELD THEORY (PHYSICS)  
FIELDS  
HARTREE APPROXIMATION  
#MAGNETIC FIELDS  
MOLECULAR ORBITALS  
QUANTUM ELECTRODYNAMICS  
SHELL THEORY

## SELF DEPLOYING SPACE STATIONS

USE SELF ERECTING DEVICES

## SELF DIFFUSION

USE #DIFFUSION

## SELF ERECTING ANTENNAS

USE ANTENNAS  
SELF ERECTING DEVICES

0203 0303 0701 2104 3004 3007 3110

UP SELF DEPLOYING SPACE STATIONS  
SELF ERECTING ANTENNAS

## RT AUTOMATION

DEVICES  
EQUIPMENT  
INFLATABLE SPACECRAFT  
INFLATABLE STRUCTURES  
ORBITAL ASSEMBLY  
SELF ALIGNMENT  
SELF REPAIRING DEVICES  
#SPACE ERECTABLE STRUCTURES

## SELF EXCITATION

1002 1003 1504 1601 2501

BT #EXCITATION  
RT FORCED VIBRATION  
FREE VIBRATION  
#OSCILLATORS  
RESONATORS

## SELF FOCUSING

1003 1412 2310

BT FOCUSING  
RT IMAGE CONTRAST  
MACHINERY  
OPTICAL CORRECTION PROCEDURE  
OPTICAL MEASURING INSTRUMENTS

## SELF INDUCED VIBRATION

1003 1504 2308

NT PANEL FLUTTER  
SUBSONIC FLUTTER  
SUPERSONIC FLUTTER  
TRANSONIC FLUTTER  
BT STRUCTURAL VIBRATION  
#VIBRATION

## RT BENDING VIBRATION

FLUTTER  
FORCED VIBRATION  
FREE VIBRATION  
MISSILE VIBRATION  
RANDOM VIBRATION  
TORSIONAL VIBRATION

## SELF LUBRICATING MATERIALS

1502 1503 1504

RT IMPREGNATING  
LUBRICATION  
MATERIALS  
SELF LUBRICATION  
SOLID LUBRICANTS  
SPACECRAFT LUBRICATION

## SELF LUBRICATION

1503 1504

BT LUBRICATION  
RT IMPREGNATING  
SELF LUBRICATING MATERIALS

## SELF MANEUVERING UNITS

1003 3001 3004 3110

UP PERSONNEL PROPULSION SYSTEMS  
REACTION JET BACKPACKS  
SMU (MANEUVERING UNITS)  
SPACE SELF MANEUVERING UNITS  
NT INLSS  
RT ASTRONAUT MANEUVERING EQUIPMENT  
EXTRAVERICULAR ACTIVITY  
#MANEUVERS

## SELF ORGANIZING SYSTEMS

0802

UP PERCEPTORS  
RT ARTIFICIAL INTELLIGENCE  
LEARNING MACHINES  
SYSTEMS  
TURING MACHINES

## SELF OSCILLATION

0902 1002 1003

BT #OSCILLATIONS  
RT FEEDBACK AMPLIFIERS  
POSITIVE FEEDBACK  
TRANSFER FUNCTIONS

## SELF PROPAGATION

3407

BT #DIFFUSION  
#TRANSMISSION  
RT PROPAGATION

## SELF REGULATING

USE #AUTOMATIC CONTROL

## SELF REPAIRING DEVICES

0503 0801 0802 1003

RT AUTOMATION  
DEVICES  
MAINTENANCE  
SELF ERECTING DEVICES

## SELF SEALING

0202 0504 0602 3110

BT SEALING  
RT FLIGHT SAFETY  
FUEL SYSTEMS

# NASA THESAURUS (ALPHABETICAL LISTING)

RUPTURING  
SUPPORT SYSTEMS

SELF STIMULATION  
0410 3407

RT MOTIVATION

REINFORCEMENT (PSYCHOLOGY)

SELF SUSTAINED EMISSION

1002 1003 2306 2401 2406

BT #DECAY

EMISSION

RT ELECTRON EMISSION

LIGHT EMISSION

PARTICLE EMISSION

STIMULATED EMISSION

SELSYNS (TRADEMARK)

USE SERVOMOTORS

## SEMANTICS

0703 3405

BT #LINGUISTICS

RT #COMMUNICATION THEORY

GRAMMARS

#LANGUAGES

MESSAGES

NOMENCLATURES

ORTHOGRAPHY

SENTENCES

#SPEECH

SYLLABLES

SYMBOLS

SYNTAX

WORDS (LANGUAGE)

## SEMICIRCULAR CANALS

0405 0408

BT #ANATOMY

EAR

SENSE ORGANS

SEMDRUMS

LABYRINTH

MIDDLE EAR

VESTIBULES

## SEMICONDUCTING FILMS

2602

RT ENERGY ABSORPTION FILMS

FILMS

THICK FILMS

THIN FILMS

## SEMICONDUCTOR DEVICES

0906

NT AVALANCHE DIODES

CRYOSAR

GALLIUM ARSENIDE LASERS

GERMANIUM DIODES

JUNCTION DIODES

JUNCTION TRANSISTORS

METAL OXIDE SEMICONDUCTORS

MIS (SEMICONDUCTORS)

NEURISTORS

PARAMETRIC DIODES

PHOTODIODES

PHOTOTRANSISTORS

PHOTOVOLTAIC CELLS

SEMICONDUCTOR LASERS

SILICON TRANSISTORS

THERMISTORS

THYRISTORS

TRANSISTOR AMPLIFIERS

TRANSISTORS

VARACTOR DIODES

VARISTORS

BT #ELECTRONIC EQUIPMENT

SOLID STATE DEVICES

RT BARRIER LAYERS

CRYSTAL RECTIFIERS

DIFFUSION ELECTRODES

#DIODES

GUNN EFFECT

HALL EFFECT

JUNCTIONS

MICROMINIATURIZATION

MOLECULAR ELECTRONICS

ORGANIC SEMICONDUCTORS

#OSCILLATORS

PARAMETRIC AMPLIFIERS

PENTODES

#RECTIFIERS

SEMICONDUCTOR JUNCTIONS

SEMICONDUCTORS (MATERIALS)

SILICON FILMS

SOLAR CELLS

TETRODES

TRIODES

WAFERS

# NASA THESAURUS (ALPHABETICAL LISTING)

## SEMICONDUCTOR JUNCTIONS

2602

NT JOSEPHSON JUNCTIONS  
N-N JUNCTIONS  
N-P-N JUNCTIONS  
P-I-N JUNCTIONS  
P-N JUNCTIONS  
P-N-P JUNCTIONS  
P-N-P-N JUNCTIONS  
SILICON JUNCTIONS  
RT JUNCTIONS  
N-TYPE SEMICONDUCTORS  
P-TYPE SEMICONDUCTORS  
SEMICONDUCTOR DEVICES  
SEMICONDUCTOR LASERS  
0906 1601 2602  
NT GALLIUM ARSENIDE LASERS  
BT #ELECTRONIC EQUIPMENT  
LASERS  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
#STIMULATED EMISSION DEVICES  
RT GALLIUM ARSENIDES  
GUNN EFFECT  
INJECTION LASERS  
PULSED LASERS  
Q SWITCHED LASERS  
SOLID STATE LASERS  
SEMICONDUCTORS (MATERIALS)  
2602  
NT ACCEPTOR MATERIALS  
DONOR MATERIALS  
METAL OXIDE SEMICONDUCTORS  
NIS (SEMICONDUCTORS)  
N-TYPE SEMICONDUCTORS  
ORGANIC SEMICONDUCTORS  
P-TYPE SEMICONDUCTORS  
PHOTOCONDUCTORS  
VYCOR  
RT CARRIER INJECTION  
CONDUCTION BANDS  
#CONDUCTORS  
ELECTRIC CONDUCTORS  
ELECTRON DENSITY (CONCENTRATION)  
ELECTRON TUNNELING  
ELECTRONS  
EMITTERS  
EXCITONS  
HOLE DISTRIBUTION (ELECTRONICS)  
HOLES (ELECTRON DEFICIENCIES)  
INDIUM ANTIMONIDES  
INDIUM TELLURIDES  
INTERMETALLICS  
MAJORITY CARRIERS  
MATERIALS  
METALLOIDS  
MINORITY CARRIERS  
RESISTORS  
SCREEN EFFECT  
SEMICONDUCTOR DEVICES  
SOLID STATE PHYSICS  
THERMOELECTRIC MATERIALS

## SEMIEMPIRICAL EQUATIONS

1902

RT #ALGEBRA  
EQUATIONS  
PARAMETERIZATION

## SEMINETALS

USE METALLOIDS

## SEMISOLIDS

1704 2311

RT PLASTIC PROPERTIES  
THIXOTROPY  
VISCOSUS FLUIDS

## SEMISPAN MODELS

0101 0102 0201

BT #MODELS  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT MODELS  
SCALE MODELS  
WIND TUNNEL MODELS

## SEMIHARVEST POLARISCOPE

1409 2306 2310 2402

BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
POLARISCOPES  
RT LASERS  
OPTICAL MEASURING INSTRUMENTS

## SENDER

USE #TRANSMITTERS  
SENECA HELICOPTER  
USE NH-41 HELICOPTER

## SENN REACTOR

2203 2204

BT BOILING WATER REACTORS  
LIQUID COOLED REACTORS  
#NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
#NUCLEAR REACTORS  
WATER COOLED REACTORS  
WATER MODERATED REACTORS

## SENSATIONS

USE #PERCEPTION

## SENSE ORGANS

0404

NT BARORECEPTORS  
CHEMORECEPTORS  
CHOROID MEMBRANES  
COCHLEA  
CONJUNCTIVA  
CORNEA  
CORTI ORGAN  
EAR  
EARDRUMS  
EUSTACHIAN TUBES  
EYE (ANATOMY)  
FOVEA  
GRAVIRECEPTORS  
LABYRINTH  
MASTOIDS  
MECHANORECEPTORS  
MIDDLE EAR  
OCULOMOTOR NERVES  
OTOLITH ORGANS  
PHOTORECEPTORS  
PROPRIOCEPTORS  
PUPILS  
RETINA  
SEMICIRCULAR CANALS  
THERMORECEPTORS  
VESTIBULES  
BT #ANATOMY  
RT FINGERS  
HEAD (ANATOMY)  
#NERVOUS SYSTEM  
OLFACTORY PERCEPTION  
PERCEPTUAL TIME CONSTANT  
RECEPTORS (PHYSIOLOGY)  
SKIN (ANATOMY)

## SENSES

USE SENSORY PERCEPTION

## SENSIBILITY

USE #SENSITIVITY

## SENSING

USE #DETECTION

## #SENSITIVITY

1002 1003 1406 1409 1413 3408

UP HIGH SENSITIVITY

INSENSITIVITY

SENSIBILITY

NT IMPACT RESISTANCE

LIGHT ADAPTATION

NOTCH SENSITIVITY

PAIN SENSITIVITY

PHOTOSENSITIVITY

PHOTOTROPISM

PROPELLANT SENSITIVITY

RADIATION TOLERANCE

RT #ACUITY

#ADAPTATION

AMPLIFICATION

AUDITORY PERCEPTION

#DYNAMIC CHARACTERISTICS

DYNAMIC RESPONSE

FREQUENCY RESPONSE

#PERCEPTION

PRECISION

#RANGE (EXTREMES)

REACTION TIME

RESISTANCE

#RESOLUTION

SENSITIZING

SHOCK RESISTANCE

THRESHOLDS

THRESHOLDS (PERCEPTION)

TOLERANCES (MECHANICS)

TRANSFER FUNCTIONS

TRANSIENT RESPONSE

VISIBILITY

VULNERABILITY

## SENSITIZING

0403 0405 0408

RT ACTIVATION

ACTUATION

## SENSORY PERCEPTION

ANAPHYLAXIS  
CORROSION PREVENTION  
#SENSITIVITY  
SENSOR-AIRBORNE TERRAIN ANALYSIS  
USE SENSORS  
TERRAIN ANALYSIS  
#SENSORIMOTOR PERFORMANCE  
0401 0410 0506  
NT PSYCHOMOTOR PERFORMANCE  
PSYCHOSOMATICS  
RT AFFERENT NERVOUS SYSTEMS  
EPPERENT NERVOUS SYSTEMS  
#HUMAN PERFORMANCE  
HUMAN REACTIONS  
PERCEPTUAL TIME CONSTANT  
PHYSIOLOGICAL TESTS  
PILOT PERFORMANCE  
REACTION TIME  
SENSORY FEEDBACK

## SENSORS

1409

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UP SENSOR-AIRBORNE TERRAIN ANALYSIS

RT

BIOINSTRUMENTATION  
CHARACTER RECOGNITION  
DATA ACQUISITION  
ELECTRONIC TRANSDUCERS  
GAS DETECTORS  
GUIDANCE SENSORS  
IMAGE VELOCITY SENSORS  
#MEASURING INSTRUMENTS  
MICROWAVE SENSORS  
REMOTE SENSORS  
SERVOMOTORS  
#TRANSDUCERS

## SENSORY DEPRIVATION

0401 0408 0410

BT DEPRIVATION

RT CONFINEMENT

CONFINING

MONOTONY

#PERCEPTION

## SENSORY DISCRIMINATION

0401 0408 0502

NT BRIGHTNESS DISCRIMINATION

TACTILE DISCRIMINATION

VISUAL DISCRIMINATION

BT #DISCRIMINATION

RT SENSORY PERCEPTION

SPEECH RECOGNITION

TIME DISCRIMINATION

## SENSORY FEEDBACK

0404 0408 0503

UP FEEL

BT #FEEDBACK

NEGATIVE FEEDBACK

EMOTIONAL FACTORS

EMOTIONS

MOODS

MOON ILLUSION

NONLINEAR FEEDBACK

#PERCEPTION

#SENSORIMOTOR PERFORMANCE

SENSORY PERCEPTION

SENSORY STIMULATION

## SENSORY PERCEPTION

0401 0408 0410

UP SENSES

NT AUDITORY PERCEPTION

AUTOKINESIS

CONSCIOUSNESS

CRITICAL FLICKER FUSION

EXTRASENSORY PERCEPTION

KINESTHESIA

OLFACTORY PERCEPTION

PAIN SENSITIVITY

PROPRIOCEPTION

SPACE PERCEPTION

TACTILE DISCRIMINATION

TASTE

VERTICAL PERCEPTION

VIBRATION PERCEPTION

VISUAL DISCRIMINATION

VISUAL PERCEPTION

BT #PERCEPTION

AFTERIMAGES

ANESTHESIA

SENSORY DISCRIMINATION

SENSORY FEEDBACK

# SENSORY STIMULATION

## SENSORY STIMULATION

0408 0410  
BT STIMULATION  
RT CHRONAIIY  
EMOTIONAL FACTORS  
SENSORY FEEDBACK  
SUBLIMINAL STIMULI

## SENTENCES

0703  
NT SYLLABLES  
WORDS (LANGUAGE)  
BT #LANGUAGES  
#LINGUISTICS  
SYNTAX  
RT #COMMUNICATION THEORY  
MESSAGES  
SEMANTICS  
SIGNAL RECEPTION  
#SIGNAL TRANSMISSION  
#SPEECH  
TALKING

## SENTINEL SYSTEM

3401  
BT #WEAPON SYSTEMS  
RT ANTIMISSILE DEFENSE  
ANTIMISSILE MISSILE  
ANTIMISSILE MISSILES  
CIVIL DEFENSE  
HIKE MISSILES  
SAFEGUARD SYSTEM  
SPARTAN MISSILE  
SPRINT MISSILE  
SURFACE TO AIR MISSILES  
SYSTEMS

## SEPARATED FLOW

0101 1201 1202 1203  
UF FLOW SEPARATION  
NT BOUNDARY LAYER SEPARATION  
BT BOUNDARY LAYER FLOW  
#FLUID FLOW  
VISCIOUS FLOW  
RT CAVITATION FLOW  
CONICAL FLOW  
CROCCO-LEE THEORY  
FLOW CHARACTERISTICS  
FLOW DISTRIBUTION  
REATTACHED FLOW  
REVERSED FLOW  
SEPARATION  
SURFACE ROUGHNESS EFFECTS  
TURBULENCE EFFECTS

## SEPARATION

1201 3102 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

UF SEGREGATION  
RT ADSORPTION  
AERATION  
AGGLOMERATION  
AGITATION  
BENEFICIATION  
BOUNDARY LAYER SEPARATION  
BREAKING  
CENTRIFUGING  
CHIPPING  
CLASSIFIERS  
CLEANING  
COAGULATION  
COALESCING  
COANDA EFFECT  
COLLOIDS  
CONCENTRATING  
CONDENSING  
CRYSTALLIZATION  
CUTTING  
DECONTAMINATION  
DEGASSING  
DEHUMIDIFICATION  
DEHYDRATION  
DEIONIZATION  
DELAMINATING  
DEMINEERALIZING  
DEOXYGENATION  
#DEPOSITION  
DESCALING  
DESORPTION  
DIALYSIS  
#DIFFUSION  
DISPERSING  
DISSOLVING  
DISTERNINATING

DISTILLATION  
DIVERSERS  
DRIVING  
ELECTRODIALYSIS  
ELECTROSTATIC PRECIPITATORS  
ELIMINATION  
ELUTION  
EVAPORATION

#EXCHANGING  
EXCLUSION  
EXTRACTION  
FILTRATION  
FLAKING  
FLASHING (VAPORIZING)  
PLOTATION  
PLUSHING  
FOAMING  
FRACTIONATION  
FRACTURING  
HOMOGENIZING  
ION EXCHANGING  
ION EXTRACTION  
ISOLATION  
LEACHING  
MATERIALS RECOVERY  
MELTING  
MIXING  
OSMOSIS  
PERCOLATION  
POLARIZATION (CHARGE SEPARATION)  
PRECIPITATION (CHEMISTRY)  
PUBGING  
PURIFICATION  
RADIOCHEMICAL SEPARATION  
RECRYSTALLIZATION  
REFINING  
REMOVAL  
SCRAPERS  
SEPARATED FLOW  
#SEPARATORS  
SETTLING  
SHAKING  
SHEARING  
SIZE SEPARATION  
SLICING  
SOLVENT EXTRACTION  
#SORPTION  
SPACING  
SPLITTING  
SPREADING  
STAGE SEPARATION  
STRIPPING (DISTILLATION)  
SUBLIMATION  
SWIRLING  
THERMAL DIFFUSION  
TUMBLING MOTION  
VAPORIZING  
VENTING  
WASHING  
ZONE MELTING

## #SEPARATORS

0302 0603 1201  
UF BATTERY SEPARATORS  
BT AIR FILTERS  
CLASSIFIERS  
DESICCATORS  
DIVIDERS  
DRYING APPARATUS  
DUST COLLECTORS  
ELECTROSTATIC PRECIPITATORS  
EVAPORATORS  
FLUID FILTERS  
PRECIPITATORS  
SIEVES  
SIZING SCREENS  
SPIRALS (CONCENTRATORS)  
STILLS  
THICKENERS (EQUIPMENT)  
CENTRIFUGES  
CLEANERS  
COLUMNS (PROCESS ENGINEERING)  
CONCENTRATING  
CONCENTRATORS  
CONDENSERS (LIQUIFIERS)  
CURTAINS  
DIFFUSERS  
DIVERSERS  
FILTERS  
FLOATS  
FLUIDIZED BED PROCESSORS  
FURNACES  
ION EXCHANGE MEMBRANE ELECTROLYTES

# NASA THESAURUS (ALPHABETICAL LISTING)

MIXERS  
SEPARATION  
SHAKERS  
SPACERS  
TRAPS  
VAPORIZERS  
WASHERS (CLEANERS)  
WASHERS (SPACERS)  
WINDOWS (APERTURES)

## SEPTUM

0404 0405  
RT MEDIASTINUM  
#MEMBRANES  
PARTITIONS

## SEQUENCING

0802 1902 3407  
RT CONSECUTIVE EVENTS  
COORDINATION  
CRITICAL PATH METHOD  
OPERATIONS  
OPERATIONS RESEARCH  
PLANNING  
PRIORITIES  
RANKING  
SCHEDULING  
SEQUENTIAL CONTROL  
SWITCHING  
SWITCHING THEORY

## SEQUENTIAL ANALYSIS

0802 1902 1903 1905  
UF SEQUENTIAL DETECTION  
BT #STATISTICAL ANALYSIS  
RT QUALITY CONTROL  
SAMPLING

## SEQUENTIAL COMPUTERS

0801 0802 1504  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS

## SEQUENTIAL CONTROL

0802 0803 1003  
UF RETROSEQUENCING  
TASK SEQUENCERS  
BT #AUTOMATIC CONTROL  
RT ACCURACY  
COMPUTER PROGRAMMING  
CONSECUTIVE EVENTS  
NUMERICAL CONTROL  
SEQUENCING

## SEQUENTIAL DETECTION

USE SEQUENTIAL ANALYSIS

## SERGEANT MISSILES

3101 3401  
BT #MISSILES  
SURFACE TO SURFACE MISSILES  
RT ARGO D-8 ROCKET VEHICLE  
JOURNEYMAN ROCKET VEHICLE  
JUNO 1 LAUNCH VEHICLE  
JUNO 2 LAUNCH VEHICLE  
JUPITER C ROCKET VEHICLE  
LITTLE JOE 2 LAUNCH VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
STRONGARM ROCKET VEHICLE

## SERIES (MATHEMATICS)

1902 1903  
UF SERIES EXPANSION  
NT ASYMPTOTIC SERIES  
CAMPBELL-HAUSDORFF SERIES  
COSINE SERIES  
FOURIER SERIES  
MACLAURIN SERIES  
PADE APPROXIMATION  
POWER SERIES  
PROGRESSIONS  
PRONY SERIES  
SINE SERIES  
TAYLOR SERIES  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
REAL VARIABLES  
RT ABEL FUNCTION  
CHEBYSHEV APPROXIMATION  
DIVERGENCE  
FORM FACTORS  
FOURIER-BESSEL TRANSFORMATION  
FOURIER-BESSEL TRANSFORMATIONS  
FUNCTION SPACE  
FUNCTIONAL ANALYSIS  
GIBBS PHENOMENON  
INFINITY  
SUNS

# NASA TREASURY (ALPHABETICAL LISTING)

SERIES EXPANSION  
USE SERIES (MATHEMATICS)  
SERPENTINE  
1806 1902  
BT IGNEOUS ROCKS  
#MINERALS  
PERIDOTITE  
ROCKS  
RT ASBESTOS  
CHROMITES  
OLIVINE  
SERRAIA  
0407  
BT BACTERIA  
#MICROORGANISMS  
#PLANTS (BOTANY)  
SERT (ROCKET TESTS)  
USE SPACE ELECTRIC ROCKET TESTS  
SERT 1 SPACECRAFT  
2803 3106 3409  
RT ELECTRIC PROPULSION  
ELECTRIC ROCKET ENGINES  
ENGINE TESTS  
SPACE ELECTRIC ROCKET TESTS  
SPACECRAFT  
SERT 2 SPACECRAFT  
2803 3106 3409  
RT ELECTRIC PROPULSION  
ELECTRIC ROCKET ENGINES  
ENGINE TESTS  
SPACE ELECTRIC ROCKET TESTS  
SPACECRAFT  
SERUMS  
0405 0412  
NT INOCULUM  
RT ANTISERUMS  
FLUIDS  
#PROTEINS  
SERVICE LIFE  
1504  
UP MACHINE LIFE  
BT LIFE (DURABILITY)  
RT ACCELERATED LIFE TESTS  
EQUIPMENT  
FATIGUE LIFE  
MAINTENANCE  
SERVICE MODULES  
1410 3105 3106  
BT #MODULES  
#SPACECRAFT COMPONENTS  
RT APOLLO SPACECRAFT  
COMMAND MODULES  
SPACECRAFT MODULES  
SERVICES  
1102 1103 1504  
RT FOOD  
GOVERNMENT PROCUREMENT  
INVENTORY MANAGEMENT  
LOGISTICS  
LOGISTICS MANAGEMENT  
MATERIALS HANDLING  
#PERSONNEL  
PROCUREMENT  
PROCUREMENT MANAGEMENT  
PRODUCTS  
SUPPORT SYSTEMS  
#TRANSPORTATION  
SERVO LOOPS  
USE FEEDBACK CONTROL  
SERVOCONTROL  
SERVOACTUATORS  
USE ACTUATORS  
SERVOMOTORS  
SERVOAMPLIFIERS  
0303 0904 1003 1201 1409  
BT #AMPLIFIERS  
CONTROL EQUIPMENT  
#CONTROLLERS  
SERVOECHANISMS  
RT FEEDBACK AMPLIFIERS  
SERVOCONTROL  
SERVOCONTROL  
0203 1003 1201 1409 2102  
UP SERVO LOOPS  
SERVOSTABILITY CONTROL  
RT AIRCRAFT HYDRAULIC SYSTEMS  
#AUTOMATIC CONTROL  
CONTROL  
CONTROL MOMENT GYROSCOPES  
CONTROL THEORY  
DIGITAL COMMAND SYSTEMS  
FEEDBACK CONTROL

HYDRAULIC EQUIPMENT  
MANIPULATORS  
MANUAL CONTROL  
OFF-ON CONTROL  
PNEUMATIC EQUIPMENT  
PROPORTIONAL CONTROL  
REMOTE CONTROL  
ROCKET ENGINE CONTROL  
SERVOAMPLIFIERS  
SERVOECHANISMS  
SERVOMOTORS  
TURBOJET ENGINE CONTROL  
VISUAL CONTROL  
SERVOECHANISMS  
0203 1003 1201 1410 1504 2102  
BT SERVOAMPLIFIERS  
SERVOMOTORS  
BT #CONTROLLERS  
RT ACTUATORS  
AIRCRAFT HYDRAULIC SYSTEMS  
#AUTOMATIC CONTROL  
AUTOMATIC CONTROL VALVES  
AUTOMATION  
CONTROL  
CONTROL MOMENT GYROSCOPES  
ELECTRIC MOTORS  
FEEDBACK CONTROL  
HYDRAULIC EQUIPMENT  
PNEUMATIC EQUIPMENT  
#RADAR EQUIPMENT  
REMOTE CONTROL  
ROBOTS  
SELF ALIGNMENT  
SERVOCONTROL  
SERVOMOTORS  
1003 1409 1504  
UP MAGNESYN (TRADEMARK)  
POSITION SERVOS  
SELVINS (TRADEMARK)  
SERVOACTUATORS  
SERVOS  
BT #CONTROLLERS  
#MOTORS  
SERVOECHANISMS  
RT ACTUATORS  
AMPLIDYNES  
#AUTOMATIC CONTROL  
ELECTRIC MOTORS  
ROTATING ELECTRICAL MACHINES  
SENSORS  
SERVOCONTROL  
SLEWING  
SYNCHRONIZERS  
TORQUE MOTORS  
SERVOS  
USE SERVOMOTORS  
SERVOSTABILITY CONTROL  
USE SERVOCONTROL  
SET  
1902 1905  
(EXCLUDES SET THEORY)  
BT #MECHANICAL PROPERTIES  
RT #DEFORMATION  
SHEAR PROPERTIES  
SET THEORY  
1902 1905  
UP SUBSETS (MATHEMATICS)  
NT BOREL SETS  
EQUIVALENCE  
THRESHOLD LOGIC  
BT #MATHEMATICAL LOGIC  
RT BOOLEAN ALGEBRA  
BRANCHING (MATHEMATICS)  
COMBINATORIAL ANALYSIS  
CONJUNCTION  
HYPERPLANES  
LATTICES (MATHEMATICS)  
LEBESGUE THEOREM  
ORLICZ SPACE  
PERMUTATIONS  
SPACE  
SUBDIVISIONS  
SUBGROUPS  
THEORIES  
SETTING  
1504 1507 3305  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT ADJUSTING  
COAGULATION  
CURING

## SR-4 HELICOPTER

#HARDENING (MATERIALS)  
POLYMERIZATION  
POSITIONING  
SOLIDIFICATION  
SETTLING  
0601 0602 1202  
RT ACCUMULATIONS  
AGGLOMERATION  
AGITATION  
BENEFICIATION  
COAGULATION  
COALESCING  
CONCENTRATING  
CRYSTALLIZATION  
#DEPOSITION  
EFFLUENTS  
FLOCCULATING  
FLOTATION  
PARTICLE MOTION  
PRECIPITATION (CHEMISTRY)  
PROCESSING  
SEPARATION  
SIZE SEPARATION  
STOKES LAW (FLUID MECHANICS)  
SUBSIDENCE  
WATER TREATMENT  
SETUPS  
0702  
BT #MACHINING  
TOOLING  
SEWAGE  
0505 3404  
BT #WASTES  
RT EFFLUENTS  
HUMAN WASTES  
METABOLIC WASTES  
WASTE DISPOSAL  
WATER TREATMENT  
SEWING  
1504 1811  
RT BINDING  
JOINING  
NEEDLES  
WEAVING  
SEX  
0404 0408  
RT DRIVES  
FEMALES  
MALES  
SEX GLANDS  
0404  
NT GONADS  
OVARIES  
PROSTATE GLAND  
TESTES  
BT #ANATOMY  
GLANDS (ANATOMY)  
#VISCERA  
RT ESTROGENS  
SEXANTS  
1406 2104 3001  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RT #NAVIGATION AIDS  
POSITION INDICATORS  
STADIMETERS  
THEODOLITES  
TRANSITS  
SPERICS  
USE ATMOSPHERICS  
SGR (NUCLEAR REACTORS)  
USE SODIUM GRAPHITE REACTORS  
SH-3 HELICOPTER  
0206  
UP HSS-2 HELICOPTER  
SEA KING HELICOPTER  
SIKORSKY HSS-2 HELICOPTER  
BT ANTISUBMARINE WARFARE AIRCRAFT  
HELICOPTERS  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT  
RT S-61 HELICOPTER  
SH-4 HELICOPTER  
SH-4 HELICOPTER  
0206  
BT ANTISUBMARINE WARFARE AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
HELICOPTERS  
ROTARY WING AIRCRAFT

## SH-34 HELICOPTER

SIKORSKY AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT S-61 HELICOPTER  
 SH-3 HELICOPTER  
 SH-34 HELICOPTER  
 0206  
 UP SEABAT HELICOPTER  
 BT HELICOPTERS  
 MILITARY HELICOPTERS  
 ROTARY WING AIRCRAFT  
 SIKORSKY AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT S-58 HELICOPTER  
 TERRAIN FOLLOWING AIRCRAFT  
 SHACKLETON BOMBER  
 0207  
 BT BOMBER AIRCRAFT  
 HAWKER SIDDELEY AIRCRAFT  
 MONOPLANES

## SHADES

0702 1002 1413  
 RT LOUVERS  
 #SHIELDING  
 SHUTTERS  
 SHADOW WEAPON SYSTEM  
 3401  
 BT #WEAPON SYSTEMS  
 SHADOWGRAPH PHOTOGRAPHY  
 0102 1202 1203 1407  
 UP SHADOWGRAPHS  
 SPARK SHADOWGRAPH PHOTOGRAPHY  
 BT SCHLIEREN PHOTOGRAPHY  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT BLACK AND WHITE PHOTOGRAPHY  
 COLOR PHOTOGRAPHY  
 FLOW VISUALIZATION  
 WIND TUNNEL MODELS

## SHADOWGRAPHS

USE SHADOWGRAPH PHOTOGRAPHY

## SHADOWS

0705 2306 2402 2902  
 UP UMBRA (SHADOWS)  
 NT LUNAR SHADOW  
 PENUMBRAS  
 UMBRAS  
 RT CLOUD COVER  
 CLOUDS (METEOROLOGY)  
 DARKNESS  
 ILLUMINATING  
 LIGHT (VISIBLE RADIATION)  
 NIGHT

## SHAFTS (MACHINE ELEMENTS)

0202 1504  
 UP AXLES  
 JOURNALS (SHAFTS)  
 TRUNNIONS  
 NT TURBOSHAFTS  
 BT #ROTATING SHAFTS  
 RT AXES OF ROTATION  
 #BEARINGS  
 BUSHINGS  
 JOURNALS  
 LOADING  
 #LOADS (FORCES)  
 MANDRELS  
 #MECHANICAL DRIVES  
 PACKINGS (SEALS)  
 PINTLES  
 PIVOTS  
 ROTATING CYLINDERS  
 SPINDLES  
 SUPPORTS  
 TORQUE  
 VEHICLE WHEELS  
 #WHEELS

## SHAKERS

0603 0905 1502 2402  
 RT CLASSIFIERS  
 MIXERS  
 #SEPARATORS  
 SHAKING  
 SIEVES  
 SIZING SCREENS  
 VIBRATION SIMULATORS

## SHAKING

0603 1002 1504 2402  
 NT DITHERS  
 RT AGITATION  
 BUFFETING

DISPERSING  
 EPILEPSY  
 FLAPPING  
 PLOTTER  
 MIXING  
 SEPARATION  
 SHAKEERS  
 STRUCTURAL VIBRATION  
 SUSPENDING (MIXING)  
 SWIRLING  
 #VIBRATION

## SHALES

1305 1306  
 BT EARTH RESOURCES  
 ROCKS  
 SEDIMENTARY ROCKS  
 RT CLAYS  
 #MINERALS  
 SHALLOW SHELL EQUATIONS  
 0101 0102 2308 3203  
 RT END PLATES  
 PRESSURE VESSELS  
 STRESS ANALYSIS

## SHANKS

USE #JOINTS (JUNCTIONS)  
 SHANNON INFORMATION THEORY  
 USE INFORMATION THEORY  
 SHANNON-WIENER MEASURE  
 0702 0703 0710  
 RT INFORMATION THEORY

## SHAPED CHARGES

3201 3302  
 BT #EXPLOSIVE DEVICES  
 RT AMMUNITION  
 BOMBS (ORDNANCE)  
 EXPLOSIVE FORMING  
 EXPLOSIVES  
 PROJECTILES  
 TORPEDOES  
 WARHEADS  
 #WEAPONS

## SHAPERS

1504  
 BT MACHINE TOOLS  
 #TOOLS  
 RT GRINDING MACHINES  
 MILLING MACHINES

## SHAPES

1902 3408  
 UP CURVED SURFACES  
 FORN  
 NT CONVEXITY  
 ELLIPTICITY  
 FLATNESS  
 LINE SHAPE  
 OGEE SHAPE  
 ROSETTE SHAPES  
 T SHAPE  
 RT ASYMMETRY  
 CONCAVITY  
 CONTOURS  
 CORNERS  
 CROSS SECTIONS  
 CURVATURE  
 CURVED PANELS  
 GEOLDS  
 #GEOMETRY  
 MORPHOLOGY  
 OBLATE SPHEROIDS  
 #PLANFORMS  
 PROFILES  
 PROFILOMETERS  
 PROLATENESS  
 SURFACE GEOMETRY  
 SYMMETRY  
 TOPOLOGY

## SHARING

USE COORDINATION

## SHARKS

0402  
 BT #ANIMALS  
 FISHES  
 VERTEBRATES  
 SHARP LEADING EDGES  
 0101 0104 1202 1203  
 BT #EDGES  
 LEADING EDGES

## SHARPNESS

0705 0710 0902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

## NASA THESAURUS (ALPHABETICAL LISTING)

BT CLABILITY  
 CONTRAST  
 PRECISION  
 SHATTERING  
 USE FRAGMENTATION  
 SHAWHEE HELICOPTER  
 USE CH-21 HELICOPTER  
 SHEAR  
 1202 1504 2311 3203 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT DILATATIONAL WAVES  
 SHEAR FLOW  
 SHEAR PROPERTIES  
 SHEAR STRAIN  
 SHEAR STRENGTH  
 SHEAR STRESS  
 SHEARING  
 SHEARS  
 SHEAR CREEP  
 2311 2601 3203  
 BT CREEP PROPERTIES  
 #MECHANICAL PROPERTIES  
 RT PLASTIC DEFORMATION  
 SHEAR FLOW  
 SHEAR STRAIN  
 TENSILE CREEP  
 SHEAR DISTURBANCES  
 USE S WAVES  
 SHEAR FATIGUE  
 USE SHEAR STRESS  
 SHEAR FLOW  
 1202 1203 3304  
 BT #FLUID FLOW  
 RT COAXIAL FLOW  
 CORE FLOW  
 CREEP PROPERTIES  
 FLOW  
 KOLMOGOROFF THEORY  
 KROOK EQUATION  
 MIXING LENGTH FLOW THEORY  
 PLASTIC FLOW  
 RICHARDSON NUMBER  
 SHEAR  
 SHEAR CREEP  
 SHEAR LAYERS  
 SHEAR STRAIN  
 SHEAR STRESS  
 STRATIFIED FLOW  
 SHEAR LAYERS  
 0101 0102 1202 1203  
 UP CHAPMAN SHEAR LAYER  
 RT BOUNDARY LAYERS  
 IONOSPHERE  
 LAYERS  
 SHEAR FLOW  
 SHOCK LAYERS  
 SHOCK WAVE CONTROL  
 TRANSITION LAYERS  
 SHEAR PROPERTIES  
 1202  
 NT SHEAR STRENGTH  
 BT #MECHANICAL PROPERTIES  
 RT CREEP PROPERTIES  
 DUCTILITY  
 FATIGUE (MATERIALS)  
 HOOKES LAW  
 HYSTERESIS  
 IMPACT STRENGTH  
 MODULUS OF ELASTICITY  
 RESILIENCE  
 SET  
 SHEAR  
 SHEAR STRESS  
 STRESS RELAXATION  
 STRESS-STRAIN DIAGRAMS  
 #STRESSES  
 TEMPERATURE INVERSIONS  
 TOUGHNESS  
 SHEAR STRAIN  
 0101 1202 3203 3204  
 RT #MECHANICAL PROPERTIES  
 SHEAR  
 SHEAR CREEP  
 SHEAR FLOW  
 SHEAR STRENGTH  
 SHEAR STRESS  
 STRUCTURAL STRAIN  
 TORSIONAL VIBRATION  
 SHEAR STRENGTH  
 0101 0102 1202 2601 3203

**NASA THESAURUS (ALPHABETICAL LISTING)**

**SHIPS**

BT #MECHANICAL PROPERTIES  
SHEAR PROPERTIES  
RT COMPRESSIVE STRENGTH  
FIBER STRENGTH  
HIGH STRENGTH  
INTERFACIAL ENERGY  
SHEAR  
SHEAR STRAIN  
SHEAR STRESS  
TENSILE STRENGTH  
SHEAR STRESS  
1202  
UF SHEAR FATIGUE  
SHEARING STRESS  
NT TORSIONAL STRESS  
BT #STRESSES  
RT #MECHANICAL PROPERTIES  
SHEAR  
SHEAR FLOW  
SHEAR PROPERTIES  
SHEAR STRAIN  
SHEAR STRENGTH  
SHEAR WAVES  
USE S WAVES  
SHEARING  
1504  
BT CUTTING  
RT BLANKING (CUTTING)  
COLD WORKING  
FAILURE  
HOT WORKING  
#LOADS (FORCES)  
METAL CUTTING  
#METAL WORKING  
SEPARATION  
SHEAR  
SHEARS  
STAMPING  
STRUCTURAL STRAIN  
SHEARING STRESS  
USE SHEAR STRESS  
SHEARS  
1504  
BT #CUTTERS  
#TOOLS  
RT MACHINE TOOLS  
SAWS  
SHEAR  
SHEARING  
SHEATHS  
2501 2502  
NT ION SHEATHS  
PLASMA SHEATHS  
RT CASING  
ENCAPSULATING  
PAIRINGS  
JACKETS  
LININGS  
PROTECTORS  
ROOFS  
WALLS  
SHEDDING  
1504 1507 1811  
RT EJECTION  
MOLTING  
PEELING  
SHEDS  
1406 2202 2405  
RT SHELTERS  
SHEEP  
0402  
BT #ANIMALS  
#MAMMALS  
VERTEBRATES  
RT WOOL  
SHEET METAL  
USE METAL SHEETS  
SHEETS  
1504 1704 2304 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #COATINGS  
CURRENT SHEETS  
ELASTIC SHEETS  
FABRICS  
FLAT PLATES  
LAMINATES  
MEMBRANE STRUCTURES  
#MEMBRANES  
METAL FOILS  
METAL SHEETS  
MULTILAYER INSULATION  
PANELS  
PAPERS  
POLYMERIC FILMS  
THIN PLATES  
VORTEX SHEETS  
VORTEX STREETS  
WEBS (SHEETS)  
SHELL STABILITY  
0102 3203  
BT DIMENSIONAL STABILITY  
#MECHANICAL PROPERTIES  
#STABILITY  
STATIC STABILITY  
STRUCTURAL STABILITY  
RT BUCKLING  
LIQUID FILLED SHELLS  
ORTHOTROPIC SHELLS  
REINFORCED SHELLS  
SHELL THEORY  
2401 2405  
RT PERFORATED SHELLS  
SELF CONSISTENT FIELDS  
THEORIES  
#SHELLS (STRUCTURAL FORMS)  
1504 1902 2311 2405 3202 3203  
NT ANISOTROPIC SHELLS  
CIRCULAR SHELLS  
CONICAL SHELLS  
CORRUGATED SHELLS  
CYLINDRICAL SHELLS  
DOMES (STRUCTURAL FORMS)  
ELASTIC SHELLS  
HEMISPHERICAL SHELLS  
LIQUID FILLED SHELLS  
METAL SHELLS  
ORTHOTROPIC SHELLS  
PERFORATED SHELLS  
RADOMES  
REINFORCED SHELLS  
SPHERICAL CAPS  
SPHERICAL SHELLS  
THIN WALLED SHELLS  
TOROIDAL SHELLS  
AIRCRAFT STRUCTURES  
ARCHES  
BAYS (STRUCTURAL UNITS)  
CAPSULES  
COVERINGS  
COWLINGS  
ENCLOSURES  
PAIRINGS  
HOUSINGS  
HULLS (STRUCTURES)  
ISOTENSOID STRUCTURES  
MEMBRANE STRUCTURES  
#MEMBRANES  
MONOCOQUE STRUCTURES  
NACELLES  
PRESSURE VESSEL DESIGN  
PROTUBERANCES  
ROCKET ENGINE CASES  
SKIN (STRUCTURAL MEMBER)  
WALLS  
SHELTERS  
0507 3401 3404  
NT LUNAR SHELTER  
RT BUILDINGS  
CIVIL DEFENSE  
ENVIRONMENTAL ENGINEERING  
HABITABILITY  
SHEDS  
SURVIVAL  
SHELVES  
1305  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONTINENTAL SHELVES  
COSMIC RAY SHOWERS  
LAND ICE  
METEOROID SHOWERS  
RAIN  
#SHIELDING  
2202 3303 3305 3407  
NT ELECTROMAGNETIC SHIELDING  
ELECTROSTATIC SHIELDING  
HEAT SHIELDING  
MAGNETIC SHIELDING  
RADIATION SHIELDING  
RADIO FREQUENCY SHIELDING  
REENTRY SHIELDING  
SOLAR RADIATION SHIELDING  
SPACECRAFT SHIELDING  
ABLATIVE NOSE CONES  
ABSORBERS (MATERIALS)  
ARMOR  
#ATTENUATION  
#ATTENUATORS  
BAMFLES  
BARRIERS  
BLAST DEFLECTORS  
BLINDS  
DEFLECTORS  
DIVERTERS  
ENCLOSURES  
FLAME DEFLECTORS  
GUARDS (SHIELDS)  
HOUSINGS  
LININGS  
LOUVERS  
MANIPULATORS  
PANELS  
#PROTECTION  
PROTECTORS  
SAFETY DEVICES  
SCREENS  
SHADES  
SUPPRESSORS  
WINDOWS (APERTURES)  
WINDSHIELDS  
SHIFT  
0802 1201 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #EXCHANGING  
FREQUENCY SHIFT  
PHASE SHIFT  
SHIFT REGISTERS  
TRANSFERRING  
SHIFT REGISTERS  
0801 0905 1002 1003 1201  
BT #COMPUTER STORAGE DEVICES  
REGISTERS (COMPUTERS)  
RT #COMPUTER COMPONENTS  
DELAY LINES (COMPUTER STORAGE)  
DIGITAL TECHNIQUES  
SHIFT  
SHIPPING EQUILIBRIUM FLOW  
1202 1203  
BT EQUILIBRIUM FLOW  
#FLUID FLOW  
GAS FLOW  
RT FROZEN EQUILIBRIUM FLOW  
SHILLELAGH MISSILES  
3101 3401  
BT ANTITANK MISSILES  
#MISSILES  
SURFACE TO SURFACE MISSILES  
SHIMS  
USE COMPENSATORS  
SHIP HULLS  
1202 1204 3202 3401  
BT HULLS (STRUCTURES)  
RT HYDRODYNAMICS  
SHIPS  
STRUCTURAL DESIGN  
SUBMARINES  
SHIP PROPULSION  
USE MARINE PROPULSION  
SHIPS  
1104 1204 3401  
NT AIRCRAFT CARRIERS  
BALLISTIC MISSILE SUBMARINES  
CARGO SHIPS  
GUIDED MISSILE SUBMARINES  
NUCLEAR POWERED SHIPS  
SATELLITE COMMUNICATIONS SHIPS  
SAVANNAH NUCLEAR SHIP  
SUBMARINES  
TANKER SHIPS  
BT #WATER VEHICLES  
RT AMPHIBIOUS VEHICLES  
BOATS  
HYDROFOIL CRAFT  
HYDROFOILS  
KEELS  
MILITARY VEHICLES  
PROPELLERS  
SHIP HULLS  
SURFACE NAVIGATION  
#SURFACE VEHICLES  
TRANSPORT VEHICLES



## SHIVERING

UNDERWATER VEHICLES  
VESSELS  
SHIVERING  
0405 0408  
NT DITHERS  
RT BODY TEMPERATURE  
SHOCK  
3203 3303 3304  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONVULSIONS  
MECHANICAL SHOCK  
SHOCK RESISTANCE  
THERMAL SHOCK  
SHOCK ABSORBERS  
0202 0203 1504 3201  
RT ABSORBERS  
ABSORBERS (EQUIPMENT)  
CUSHIONS  
DAMPING  
#ENERGY ABSORPTION  
HYDRAULIC EQUIPMENT  
IMPACT  
IMPACT ACCELERATION  
ISOLATORS  
LANDING GEAR  
MECHANICAL SHOCK  
PNEUMATIC EQUIPMENT  
SILENCERS  
SPRINGS (ELASTIC)  
SUSPENSION SYSTEMS (VEHICLES)  
VIBRATION DAMPING  
VIBRATION ISOLATORS  
SHOCK DIFFUSERS  
USE DIFFUSERS  
SHOCK WAVE ATTENUATION  
SHOCK DISCONTINUITY  
1202 1203 3203  
BT DISCONTINUITY  
RT DENSITY DISTRIBUTION  
SHOCK FRONTS  
SHOCK WAVE PROFILES  
SHOCK WAVE PROPAGATION  
WAVE FRONTS  
SHOCK FRONTS  
1202 1203  
BT WAVE FRONTS  
RT FRONTS  
SHOCK DISCONTINUITY  
SHOCK WAVE PROPAGATION  
SHOCK WAVES  
WAVE PROPAGATION  
WAVE SCATTERING  
SHOCK HEATING  
0602 0603 2502 3303  
BT AERODYNAMIC HEATING  
#HEATING  
KINETIC HEATING  
TRANSIENT HEATING  
RT MAGNETOHYDRODYNAMIC SHEAR HEATING  
PLASMA HEATING  
SHOCK WAVES  
SHOCK LAYERS  
1202 1203 3203  
BT LAYERS  
NORMAL SHOCK WAVES  
OBLIQUE SHOCK WAVES  
SHEAR LAYERS  
SHOCK WAVES  
STRESS WAVES  
TRANSITION LAYERS  
SHOCK LOADS  
1202 3201 3203  
NT BLAST LOADS  
BT DYNAMIC LOADS  
#LOADS (FORCES)  
TRANSIENT LOADS  
RT AERODYNAMIC LOADS  
AXIAL COMPRESSION LOADS  
COMPRESSION LOADS  
IMPACT LOADS  
LANDING LOADS  
SHOCK WAVES  
SHOCK MEASURING INSTRUMENTS  
1406 3203  
BT #MEASURING INSTRUMENTS  
RT ACCELEROMETERS  
PRESSURE GAGES  
SEISMOGRAPHS  
STRAIN GAGES

## SHOCK RESISTANCE

2308  
UP SHOCK SENSITIVITY  
NT IMPACT RESISTANCE  
RT HIGH ACCELERATION  
IMPACT  
#MECHANICAL PROPERTIES  
MECHANICAL SHOCK  
PROPELLANT SENSITIVITY  
RESISTANCE  
#SENSITIVITY  
SHOCK  
THERMAL SHOCK  
#VIBRATION  
SHOCK SENSITIVITY  
USE SHOCK RESISTANCE  
SHOCK SIMULATORS  
1107 1202 3201  
BT #SIMULATORS  
RT SHOCK TESTS  
VIBRATION SIMULATORS  
SHOCK SPECTRA  
1202 2308 3203  
BT #SPECTRA  
RT DYNAMIC STRUCTURAL ANALYSIS  
ENERGY SPECTRA  
MECHANICAL SHOCK  
NOISE SPECTRA  
SHOCK TESTS  
STROKING TESTS  
STRUCTURAL DESIGN  
STRUCTURAL VIBRATION  
VIBRATIONAL SPECTRA  
SHOCK TESTS  
1108 1406 1504 3203  
RT DROP TESTS  
IMPACT TESTS  
LOAD TESTS  
RAILROAD HUMPING TESTS  
SHOCK SIMULATORS  
SHOCK SPECTRA  
TESTS  
#VIBRATION TESTS  
SHOCK TUBES  
1108 1201 1203  
UP ELECTROMAGNETIC SHOCK TUBES  
WAVE SUPERHEATERS  
NT MAGNETIC ANNULAR SHOCK TUBES  
SHOCK TUNNELS  
BT #SHOCK WAVE GENERATORS  
RT GAS TEMPERATURE  
HOTSHOT WIND TUNNELS  
HYPERSONIC FLOW  
HYPERVELOCITY WIND TUNNELS  
LOW DENSITY RESEARCH  
LOW DENSITY WIND TUNNELS  
MAGNETIC PISTONS  
SHOCK WAVE LUMINESCENCE  
#TEST FACILITIES  
TUBES  
SHOCK TUNNELS  
0201 1110 1203  
BT HYPERVELOCITY WIND TUNNELS  
SHOCK TUBES  
#SHOCK WAVE GENERATORS  
#TEST FACILITIES  
WIND TUNNELS  
RT CASCADE WIND TUNNELS  
HOTSHOT WIND TUNNELS  
HYPERSONIC FLOW  
LOW DENSITY RESEARCH  
LOW DENSITY WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
SHOCK WAVE ATTENUATION  
1202 1203 3201 3203  
UP SHOCK DIFFUSERS  
BT ACOUSTIC ATTENUATION  
#ATTENUATION  
WAVE ATTENUATION  
RT ATMOSPHERIC ATTENUATION  
NOISE REDUCTION  
SHOCK WAVE CONTROL  
SHOCK WAVE PROFILES  
SHOCK WAVES  
WAVE PROPAGATION  
SHOCK WAVE CONTROL  
1202 1203 3201 3203 3404  
RT CONTROL  
SECONDARY INJECTION  
SHEAR LAYERS  
SHOCK WAVE ATTENUATION  
SHOCK WAVE PROFILES

## NASA THESAURUS (ALPHABETICAL LISTING)

SHOCK WAVES  
#SHOCK WAVE GENERATORS  
1202 1203 2501  
NT MAGNETIC ANNULAR SHOCK TUBES  
SHOCK TUBES  
SHOCK TUNNELS  
RT GENERATORS  
MAGNETIC PISTONS  
PRESSURE SENSORS  
PULSE GENERATORS  
SHOCK WAVE PROPAGATION  
WAVE GENERATION  
SHOCK WAVE INTERACTION  
1202 1203 3203  
BT WAVE INTERACTION  
RT INTERACTIONS  
PROPAGATION MODES  
#SCATTERING  
SHOCK WAVE LUMINESCENCE  
SHOCK WAVE PROPAGATION  
SHOCK WAVES  
WAVE DEGRADATION  
SHOCK WAVE LUMINESCENCE  
0605 1202 1203 3203  
BT #DECAY  
EMISSION  
LIGHT EMISSION  
LUMINESCENCE  
RT LOW DENSITY RESEARCH  
SHOCK TUBES  
SHOCK WAVE INTERACTION  
SHOCK WAVES  
WAVE INTERACTION  
SHOCK WAVE PROFILES  
1202 1203 1413 3202 3203  
RT KROOK EQUATION  
PRESSURE DISTRIBUTION  
PROFILES  
SHOCK DISCONTINUITY  
SHOCK WAVE ATTENUATION  
SHOCK WAVE CONTROL  
SHOCK WAVE PROPAGATION  
SHOCK WAVES  
VELOCITY DISTRIBUTION  
WAVE INTERACTION  
SHOCK WAVE PROPAGATION  
1202 1203 3203  
BT #TRANSMISSION  
WAVE PROPAGATION  
RT ATMOSPHERIC ATTENUATION  
BURGER EQUATION  
CROCCO METHOD  
HIGH TEMPERATURE GASES  
NONEQUILIBRIUM RADIATION  
RANKINE-HUGONOT RELATION  
SECONDARY INJECTION  
SHOCK DISCONTINUITY  
SHOCK FRONTS  
#SHOCK WAVE GENERATORS  
SHOCK WAVE INTERACTION  
SHOCK WAVE PROFILES  
SHOCK WAVES  
SOUND PROPAGATION  
TWO FLUID MODELS  
WAVE ATTENUATION  
WAVE INTERACTION  
SHOCK WAVES  
0101 0203 1202  
UP BOW SHOCK WAVES  
NT DETONATION WAVES  
MACH CONES  
NORMAL SHOCK WAVES  
OBLIQUE SHOCK WAVES  
RIRNANN WAVES  
SONIC BOOMS  
BT #ELASTIC WAVES  
RT ADIABATIC EQUATIONS  
AERODYNAMIC NOISE  
BLAST LOADS  
BLASTS  
BOW WAVES  
DETONATION  
EARTHQUAKES  
ELECTROSTATIC WAVES  
EXPLODING WIRES  
#EXPLOSIONS  
GAS TEMPERATURE  
HUGONOT EQUATION OF STATE  
HYPERSONIC FLOW  
HYPERSONIC SHOCK  
HYPERSONIC WAVES  
IMPACT

# NASA THESAURUS (ALPHABETICAL LISTING)

IMPLOSIONS  
 LONGITUDINAL WAVES  
 MACH NUMBER  
 MAGNETOHYDRODYNAMIC WAVES  
 MECHANICAL SHOCK  
 MOLECULAR RELAXATION  
 NOISE (SOUND)  
 NOVAE  
 PLANE WAVES  
 PLASMA WAVES  
 PLUMES  
 PRESSURE PULSES  
 SEISMIC WAVES  
 SHOCK FRONTS  
 SHOCK HEATING  
 SHOCK LAYERS  
 SHOCK LOADS  
 SHOCK WAVE ATTENUATION  
 SHOCK WAVE CONTROL  
 SHOCK WAVE INTERACTION  
 SHOCK WAVE LUMINESCENCE  
 SHOCK WAVE PROFILES  
 SHOCK WAVE PROPAGATION  
 SOUND PRESSURE  
 SOUND WAVES  
 STRESS WAVES  
 SUPERSONIC FLOW  
 TRANSITION LAYERS  
 TRANSONIC FLOW  
 TSUNAMI WAVES  
 UNDERWATER ACOUSTICS  
 UNDERWATER COMMUNICATION  
 WEDGE FLOW  
 WHITHAM RULE  
  
 SHOES  
 0508  
 UF SLIPPERS  
 BT #CLOTHING  
 RT BOOTS (FOOTWEAR)  
 LEATHER  
 PROTECTIVE CLOTHING  
 SHOOTING STAR AIRCRAFT  
 USE T-33 AIRCRAFT  
 SHOPS  
 1507 3406  
 RT MAINTENANCE  
 SHORAN  
 1904 2102 2103  
 UF SHORT RANGE NAVIGATION  
 BT HYPERBOLIC NAVIGATION  
 #NAVIGATION  
 RADIO NAVIGATION  
 RT AIR NAVIGATION  
 DECCA NAVIGATION  
 DISTANCE MEASURING EQUIPMENT  
 #NAVIGATION AIDS  
 SOLAR COMPASSES  
 SHORT AND HARBOR AIRCRAFT  
 0201 0204 0207  
 NT SC-1 AIRCRAFT  
 SC-7 AIRCRAFT  
 SUNDERLAND 5 FLYING BOAT  
 AIRCRAFT  
 RT BELFAST C MK-1 AIRCRAFT  
 USE SC-5 AIRCRAFT  
 SHORT CIRCUITS  
 0902 1001 1002 1505  
 RT #CIRCUITS  
 ELECTRIC ARCS  
 FAILURE  
 JUMPERS  
 SYSTEM FAILURES  
 SHORT HAUL AIRCRAFT  
 0201 3404  
 BT #TRANSPORT AIRCRAFT  
 RT AIR TRANSPORTATION  
 AIRCRAFT DESIGN  
 AIRLINE OPERATIONS  
 PASSENGER AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 #V/STOL AIRCRAFT  
 SHORT RANGE BALLISTIC MISSILES  
 3006 3101 3401  
 NT AUTOMAT MISSILE  
 BT BALLISTIC MISSILES  
 #MISSILES  
 SURFACE TO SURFACE MISSILES  
 FIELD ARMY BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 RT  
 SHORT RANGE NAVIGATION  
 USE SHORAN

SHORT SC-1 AIRCRAFT  
 USE SC-1 AIRCRAFT  
 SHORT SC-5 AIRCRAFT  
 USE SC-5 AIRCRAFT  
 SHORT SC-7 AIRCRAFT  
 USE SC-7 AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 0201 0204 0207  
 UF STOL AIRCRAFT  
 BT BREGUET 940 AIRCRAFT  
 BREGUET 941 AIRCRAFT  
 BREGUET 942 AIRCRAFT  
 C-123 AIRCRAFT  
 DHC 4 AIRCRAFT  
 DHC 5 AIRCRAFT  
 DO-29 AIRCRAFT  
 RF-1 AIRCRAFT  
 SIAT 311 AIRCRAFT  
 VZ-3 AIRCRAFT  
 BT #V/STOL AIRCRAFT  
 RT AIRCRAFT  
 COMPOUND HELICOPTERS  
 FAN IN WING AIRCRAFT  
 HELICOPTERS  
 JATO ENGINES  
 #JET AIRCRAFT  
 JET PLAPS  
 LIFT FANS  
 LIFTING ROTORS  
 MILITARY AIRCRAFT  
 ROTARY WING AIRCRAFT  
 SHORT HAUL AIRCRAFT  
 SUBSONIC AIRCRAFT  
 TAKEOFF RUNS  
 TILT WING AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 WINGED VEHICLES  
 SHORT WAVE RADIATION  
 2402 2902 2903  
 (RADIO WAVES)  
 NT DECI-METER WAVES  
 MICROWAVES  
 MILLIMETER WAVES  
 SUBMILLIMETER WAVES  
 BT #ELECTROMAGNETIC RADIATION  
 RADIO WAVES  
 RT FAR INFRARED RADIATION  
 HIGH FREQUENCIES  
 LONG WAVE RADIATION  
 MONOCHROMATIC RADIATION  
 SHORT WAVE RADIO TRANSMISSION  
 SHORT WAVE RADIO TRANSMISSION  
 0703 0710 2402  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 RADIO TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 RT HIGH FREQUENCIES  
 SHORT WAVE RADIATION  
 WAVE PROPAGATION  
 SHORTENING  
 USE REDUCTION  
 SHOT  
 3102 3106 3409  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 BT AMMUNITION  
 #LAUNCHING  
 ORBITAL SHOTS  
 PELLETS  
 SHOT PEENING  
 SHOT NOISE  
 0704 0705  
 BT BLACKOUT (PROPAGATION)  
 #ELECTROMAGNETIC INTERFERENCE  
 ELECTROMAGNETIC NOISE  
 RADIO FREQUENCY INTERFERENCE  
 BT THERMAL NOISE  
 SHOT PEENING  
 1504 1704 3203  
 BT #HARDENING (MATERIALS)  
 #METAL FINISHING  
 PEENING  
 BT COLD WORKING  
 DESCALING  
 FATIGUE (MATERIALS)  
 #METAL WORKING  
 SHOT  
 STRAIN HARDENING  
 SURFACE FINISHING  
 WORK HARDENING

## SHUTTERS

SHOTPUT SOUNDING ROCKETS  
 3106 3108  
 BT MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 SOUNDING ROCKETS  
 RT ECHO SATELLITES  
 SOLID PROPELLANT ROCKET ENGINES  
 X-248 ENGINE  
 XM-33 ENGINE  
 SHOULDERS  
 0404 0405  
 RT JOINTS (ANATOMY)  
 SCAPULA  
 SHOWERS  
 1308 2003 2901  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COSMIC RAY SHOWERS  
 FLOOD PREDICTIONS  
 METEOROID SHOWERS  
 RAIN  
 RAINSTORMS  
 SHRAPNEL  
 1704 3302 3401  
 RT FRAGMENTATION  
 FRAGMENTS  
 PROJECTILES  
 #WEAPONS  
 SHREDDING  
 1504 3407  
 BT COMMINUTION  
 RT CUTTING  
 TEARING  
 SHREWS  
 0402  
 BT #ANIMALS  
 MAMMALS  
 VERTEBRATES  
 SHRIKE MISSILE  
 3101 3401  
 BT AIR TO SURFACE MISSILES  
 RT SOLID PROPELLANT ROCKET ENGINES  
 SHREINKAGE  
 1504 3203 3304  
 RT CASTING  
 CONTRACTION  
 #GROWTH  
 REDUCTION  
 SINTERING  
 TEMPERATURE INVERSIONS  
 WARPAGE  
 SHROUDED BODIES  
 USE SHROUDS  
 SHROUDED NOZZLES  
 1201 1504 2806 2808  
 RT ANNULAR NOZZLES  
 NOZZLE GEOMETRY  
 NOZZLE WALLS  
 NOZZLES  
 SHROUDED PROPELLERS  
 0104 2802  
 UF DUCTED PROPELLERS  
 BT PROPELLERS  
 RT DUCTED FANS  
 RING WINGS  
 THRUST AUGMENTATION  
 XV-11A AIRCRAFT  
 SHROUDED TURBINES  
 0104 0303 1504  
 BT TURBINES  
 #TURBOMACHINERY  
 SHROUDS  
 1103  
 UF SHROUDED BODIES  
 RT COVERINGS  
 DUCTED BODIES  
 RIGGING  
 SHUNTS  
 USE BYPASSES  
 #CIRCUITS  
 SHUTDOWNS  
 0201 2801  
 RT DEACTIVATION  
 #ENGINES  
 SCRAM  
 SHUTTERS  
 1407 1412  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BLINDS

SI

CAMERA SHUTTERS  
LOUVERS  
SHADES

SI  
USE INTERNATIONAL SYSTEM OF UNITS

SI-204 AIRCRAFT  
0201 0207  
UF SIEBEL SI-204 AIRCRAFT  
SIEBEL SI-204 D AIRCRAFT  
BT MONOPLANES  
SIEBEL AIRCRAFT  
#TRANSPORT AIRCRAFT

SIAT AIRCRAFT  
0201 0204  
NT SIAT 311 AIRCRAFT  
RT AIRCRAFT

SIAT 311 AIRCRAFT  
0201 0204 0209  
UF SIEBEL SIAT 311 AIRCRAFT  
BT #JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
SIAT AIRCRAFT  
#TRANSPORT AIRCRAFT  
#V/STOL AIRCRAFT

SIBERIA  
1305  
RT ARCTIC REGIONS  
ASIA  
U.S.S.R.

SIC (COEFFICIENT)  
USE STRUCTURAL INFLUENCE COEFFICIENTS

SICKNESSES  
0401 0405 0408  
NT ALTITUDE SICKNESS  
DECOMPRESSION SICKNESS

SID (IONOSPHERIC DISTURBANCES)  
USE SUDDEN IONOSPHERIC DISTURBANCES

SIDE INLETS  
0101 0201 1202 1203  
BT #INTAKE SYSTEMS  
RT AIR INTAKES  
HYPERSONIC INLETS  
NOSE INLETS  
SCOOPS  
SUPERSONIC INLETS  
WATER INTAKES

SIDE-LOOKING RADAR  
0207 0705 1402 1410 3401  
NT RADAR IMAGERY  
BT #RADAR  
RT RADAR SCANNING  
SEARCH RADAR

SIDEBANDS  
0705 0710 2309  
RT DOUBLE SIDEBAND TRANSMISSION  
SELECTIVE FADING  
SINGLE SIDEBAND TRANSMISSION

SIDELobe REDUCTION  
0702 0705 0710  
BT #ATTENUATION  
RT HORN ANTENNAS  
RADAR ANTENNAS  
RADAR ATTENUATION  
RADAR RECEPTION  
RADAR REFLECTORS  
RADAR RESOLUTION  
REDUCTION  
SIDELOBES

SIDELOBES  
0705 0710 2309  
BT ANTENNA RADIATION PATTERNS  
#DISTRIBUTION (PROPERTY)  
RADIATION DISTRIBUTION  
RT ANTENNA DESIGN  
SIDELobe REDUCTION

SIDERITE METEORITES  
USE IRON METEORITES

SIDERITES  
1806  
BT #CARBON COMPOUNDS  
CARBONATES  
#IRON COMPOUNDS  
#MINERALS

SIDES  
1902 3203  
RT #EDGES  
#GEOMETRY  
RIMS  
WALLS

SIDESLIP  
0101 0102  
NT EARTH ORBITAL RENDEZVOUS  
LUNAR ORBITAL RENDEZVOUS  
ORBITAL RENDEZVOUS  
SPACECRAFT DOCKING  
BT #MANEUVERS  
RT ROLL  
SKIDDING  
SLIP  
SPACECRAFT MOTION  
YAW

SIDEWASH  
USE BACKWASH

SIDEWINDER MISSILES  
3101 3401  
BT AIR TO AIR MISSILES  
ANTI-AIRCRAFT MISSILES  
#MISSILES

SIEBEL AIRCRAFT  
0201 0204  
NT SI-204 AIRCRAFT  
RT AIRCRAFT

SIEBEL BS-210 AIRCRAFT  
USE BS-210 AIRCRAFT

SIEBEL SI-204 AIRCRAFT  
USE SI-204 AIRCRAFT

SIEBEL SI-204 D AIRCRAFT  
USE SI-204 AIRCRAFT

SIEBEL SIAT 311 AIRCRAFT  
USE SIAT 311 AIRCRAFT

SIEMENS 2002 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT

SIEMETSKI T-3 HELICOPTER  
0206  
BT ASRO AIRCRAFT  
HELICOPTERS  
LIGHT AIRCRAFT  
ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT

SIEVES  
0602 2303 2404  
BT #SEPARATORS  
RT FLUID FILTERS  
SHAKERS  
SIZING SCREENS  
WIRE CLOTH

SIGHT  
USE VISUAL PERCEPTION

SIGMA 7  
3104 3106 3409  
BT #MANNED SPACECRAFT  
MERCURY SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
#SPACE CAPSULES  
RT MERCURY MA-8 FLIGHT

SIGNAL ANALYSIS  
0702 0705 0708 0803 1409  
BT CORRELATION  
DATA CORRELATION  
#DATA PROCESSING  
RT ANALYZING  
DIGITAL RADAR SYSTEMS  
FREQUENCY ANALYZERS  
SIGNAL DISTORTION  
SIGNAL MEASUREMENT  
SIGNAL TO NOISE RATIOS  
SPECTRUM ANALYSIS

SIGNAL ANALYZERS  
0701 0705 0905  
BT ANALYZERS  
#MEASURING INSTRUMENTS  
RT ANALOG COMPUTERS  
AUTODYNES  
SIGNAL DETECTION  
SIGNAL DETECTORS  
SIGNAL PROCESSING

SIGNAL DETECTION  
0701 0702 0703 0705 0710 0905  
NT CORRELATION DETECTION  
BT #DETECTION  
RT AUTODYNES  
DETECTORS  
#DISCRIMINATION  
PHASE DETECTORS  
PREAMPLIFIERS  
RADAR DETECTION

## NASA THESAURUS (ALPHABETICAL LISTING)

SIGNAL ANALYZERS  
SIGNAL MEASUREMENT  
SIGNAL PROCESSING  
SIGNAL RECEPTION  
#SIGNAL TRANSMISSION  
SOUND TRANSDUCERS  
#TELECOMMUNICATION

SIGNAL DETECTORS  
0702  
UF SIGNAL DISCRIMINATORS  
RT AUTODYNES  
DETECTORS  
#DISCRIMINATION  
MICROWAVE SENSORS  
PREAMPLIFIERS  
SIGNAL ANALYZERS  
SIGNAL MEASUREMENT  
SIGNAL RECEPTION  
#SIGNAL TRANSMISSION  
SOUND TRANSDUCERS  
#TELECOMMUNICATION

SIGNAL DISCRIMINATORS  
USE SIGNAL DETECTORS

SIGNAL DISTORTION  
0702 0705 0710  
BT DISTORTION  
RT RADIO SIGNALS  
SCRAMBLING (COMMUNICATION)  
SIGNAL ANALYSIS  
SIGNAL MEASUREMENT

SIGNAL ENCODING  
0702 0703 0705 0802  
BT CODING  
RT DIGITAL TO ANALOG CONVERTERS  
REDUNDANCY ENCODING  
SCRAMBLING (COMMUNICATION)  
#SIGNAL TRANSMISSION  
#TELECOMMUNICATION  
#TRANSMITTERS  
VOICE DATA PROCESSING

SIGNAL FADEOUT  
USE SIGNAL FADING

SIGNAL FADING  
0705 0708 0709 0710 2301  
UF SIGNAL FADEOUT  
NT SELECTIVE FADING  
BT #FADING  
RT ACOUSTIC INSTABILITY  
ATMOSPHERIC SCATTERING  
#ATTENUATION  
DIFFRACTION PATTERNS  
ELECTROMAGNETIC ABSORPTION  
RADIO FREQUENCY INTERFERENCE  
RADIO SCATTERING  
SIGNAL TO NOISE RATIOS  
SHEAR  
SOUND INTENSITY

SIGNAL FADING RATE  
0705 0710 2301  
BT #RATES (PER TIME)  
RT SELECTIVE FADING  
SIGNAL TO NOISE RATIOS  
SOUND INTENSITY

SIGNAL FLOW GRAPHS  
0503 0702 0703 0802 1406  
RT NETWORK ANALYSIS  
NETWORKS  
RICHARDS THEOREM

SIGNAL GENERATORS  
0701 0705 0905  
NT FREQUENCY SYNTHESIZERS  
FUNCTION GENERATORS  
RT #CIRCUITS  
GENERATORS  
HALL GENERATORS  
#OSCILLATORS  
#SIGNAL TRANSMISSION  
SIRENS  
SOLID STATE DEVICES  
SOUND GENERATORS  
SUBHARMONIC GENERATORS  
VOLTAGE GENERATORS

SIGNAL MEASUREMENT  
0702 0705 0708 0710 1406  
UF ELECTRONIC SIGNAL MEASUREMENT  
RT MEASUREMENT  
SIGNAL ANALYSIS  
SIGNAL DETECTION  
SIGNAL DETECTORS  
SIGNAL DISTORTION  
SIGNAL RECEPTION

# NASA THESAURUS (ALPHABETICAL LISTING)

**SIGNAL MIXING**  
0702 0703 0705 0710  
BT MIXING  
RT AUDITORY SIGNALS  
ERROR SIGNALS  
MAGNETIC SIGNALS  
RADIO SIGNALS  
#SIGNAL TRANSMISSION  
**SIGNAL NOISE**  
USE SIGNAL TO NOISE RATIOS  
**SIGNAL PROCESSING**  
0702 0703 0708 1905  
BT #DATA PROCESSING  
RT PROCESSING  
SIGNAL ANALYZERS  
SIGNAL DETECTION  
TELEMETRY  
**SIGNAL RECEPTION**  
0702 0703 0705 0710  
NT SYLLABLES  
SYMBOLS  
TELEVISION RECEPTION  
HOMODYNE RECEPTION  
PREAMPLIFIERS  
RECEIVING  
SENTENCES  
SIGNAL DETECTION  
SIGNAL DETECTORS  
SIGNAL MEASUREMENT  
#SIGNAL TRANSMISSION  
VOCODERS  
**SIGNAL REFLECTION**  
0705 0710 1302 2309  
BT #ECHOES  
RT REFLECTION  
WAVE REFLECTION  
**SIGNAL STABILIZATION**  
0702 0705 0707 0709 2102  
BT STABILIZATION  
RT FREQUENCY CONTROL  
TRANSMISSION CIRCUITS  
**SIGNAL TO NOISE RATIOS**  
0703 0704 0705  
UF SIGNAL NOISE  
BT #RATIOS  
RT AMPLITUDE DISTRIBUTION ANALYSIS  
#ATTENUATION  
BACKGROUND NOISE  
#COMMUNICATION THEORY  
CORRELATION DETECTION  
#ELECTROMAGNETIC INTERFERENCE  
ELECTROMAGNETIC NOISE  
IMAGE CONTRAST  
IMAGE ENHANCEMENT  
NOISE  
NOISE PROPAGATION  
NOISE SPECTRA  
NOISE THRESHOLD  
RANDOM NOISE  
RANDOM SIGNALS  
SIGNAL ANALYSIS  
SIGNAL FADING  
SIGNAL FADING RATE  
SIGNALS  
WHITE NOISE  
#SIGNAL TRANSMISSION  
0702 0708 0710 1002  
NT AUTOMATIC PICTURE TRANSMISSION  
BIOTELEMETRY  
DATA TRANSMISSION  
DOUBLE SIDEBAND TRANSMISSION  
IONOSPHERIC P-SCATTER PROPAGATION  
IONOSPHERIC PROPAGATION  
MICROWAVE TRANSMISSION  
MULTIPATH TRANSMISSION  
P.A.C.H. TELEMETRY  
PCH TELEMETRY  
PULSE FREQUENCY MODULATION  
TELEMETRY  
RADAR TRANSMISSION  
RADIO TELEMETRY  
RADIO TRANSMISSION  
SATELLITE TRANSMISSION  
SHORT WAVE RADIO TRANSMISSION  
SINGLE SIDEBAND TRANSMISSION  
TELEMETRY  
TELEVISION TRANSMISSION  
TRANSEQUATORIAL PROPAGATION  
RT MULTIPLEXING  
ORTHOGONAL MULTIPLEXING THEORY  
PULSE COMMUNICATION  
RADIO SCATTERING

SENTENCES  
SIGNAL DETECTION  
SIGNAL DETECTORS  
SIGNAL ENCODING  
SIGNAL GENERATORS  
SIGNAL MIXING  
SIGNAL RECEPTION  
SOUND TRANSMISSION  
TALKING  
#TELECOMMUNICATION  
TRANSMISSION EFFICIENCY  
WIRELESS COMMUNICATIONS  
**SIGNALS**  
0702 0703 1001 1002 2402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS BELOW)  
RT AUDITORY SIGNALS  
BEACONS  
BELLS  
CHIRP SIGNALS  
ERROR SIGNALS  
HORNS  
MAGNETIC SIGNALS  
MESSAGES  
PSEUDORANDOM SEQUENCES  
PIROTECHNICS  
RANDOM SIGNALS  
SIGNAL TO NOISE RATIOS  
SIRENS  
SOUND GENERATORS  
#TELECOMMUNICATION  
TIME SIGNALS  
VISUAL SIGNALS  
**SIGNATURE ANALYSIS**  
0705 0710 3401  
RT ANALYZING  
#DETECTION  
#IMAGERY  
MISSILE SIGNATURES  
RADAR SIGNATURES  
#SIGNATURES  
TARGET RECOGNITION  
#SIGNATURES  
0705 3401  
NT MAGNETIC SIGNATURES  
MISSILE SIGNATURES  
RADAR SIGNATURES  
SPECTRAL SIGNATURES  
RT AMPLITUDE DISTRIBUTION ANALYSIS  
#DETECTION  
REPRESENTATIONS  
SIGNATURE ANALYSIS  
TARGET RECOGNITION  
**SIGNIFICANCE**  
1905  
RT CONFIDENCE LIMITS  
CORRELATION  
COVARIANCE  
DEGREES OF FREEDOM  
FINITE DIFFERENCE THEORY  
NULL HYPOTHESIS  
NUMERICAL ANALYSIS  
REGRESSION ANALYSIS  
STATISTICAL TESTS  
**SIGNS (SYMBOLS)**  
USE SYMBOLS  
**SIGNS AND SYMPTOMS**  
0405  
UF SYMPTOMS  
SYNDROMES  
NT ASPHYXIA  
BRADYCARDIA  
COUGH  
DYSPEA  
HEADACHE  
HEMATURIA  
LEUKOPENIA  
VERTIGO  
RT #DISEASES  
HALLUCINATIONS  
INDICATION  
SYMPTOMOLOGY  
**SIKHOTE-LIN METEORITE**  
3005  
BT #CELESTIAL BODIES  
IRON METEORITES  
METEORITES  
**SIKORSKY AIRCRAFT**  
0201 0204 0206 0207  
UF SIKORSKY MILITARY HELICOPTERS  
RT CH-3 HELICOPTER  
CH-34 HELICOPTER

# SILICATES

CH-54 HELICOPTER  
H-53 HELICOPTER  
H-56 HELICOPTER  
S-58 HELICOPTER  
S-61 HELICOPTER  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
SH-34 HELICOPTER  
SIKORSKY WHIRLWIND HELICOPTER  
UH-34 HELICOPTER  
RT AIRCRAFT  
**SIKORSKY HSS-2 HELICOPTER**  
USE SH-3 HELICOPTER  
**SIKORSKY MILITARY HELICOPTERS**  
USE SIKORSKY AIRCRAFT  
**SIKORSKY S-58 HELICOPTER**  
USE S-58 HELICOPTER  
**SIKORSKY S-61 HELICOPTER**  
USE S-61 HELICOPTER  
**SIKORSKY S-64 HELICOPTER**  
USE CH-54 HELICOPTER  
**SIKORSKY S-65 HELICOPTER**  
USE H-53 HELICOPTER  
**SIKORSKY WHIRLWIND HELICOPTER**  
0206  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
SIKORSKY AIRCRAFT  
#V/STOL AIRCRAFT  
**SILANES**  
0603 1804  
NT CHLOROSILANES  
METHYL CHLOROSILANES  
METHYLSILANES  
BT HYDRIDES  
#HYDROGEN COMPOUNDS  
#SILICON COMPOUNDS  
RT DISILICIDES  
**SILENCE**  
0703 2301  
RT NOISE REDUCTION  
TRANSMISSION LOSS  
**SILENCERS**  
0701 0705 2301  
RT #ATTENUATORS  
DAMPING  
INHIBITORS  
MUFFLERS  
SHOCK ABSORBERS  
SQUELCH CIRCUITS  
SUPPRESSORS  
ZERO SOUND  
**SILICA**  
USE SILICON DIOXIDE  
**SILICA GLASS**  
1801 1804 1805  
BT GLASS  
RT GLASS COATINGS  
GLASS ELECTRODES  
GLASS FIBERS  
GLASSWARE  
SANDS  
SILICON DIOXIDE  
**SILICATES**  
0603 1801 1804 1805  
NT ALUMINUM SILICATES  
ANDESITE  
ARAGONITE  
BERYL  
CALCIUM SILICATES  
CORDIERITE  
ENSTATITE  
FAYALITE  
FELDSPARS  
FLUOROSILICATES  
FORSTERITE  
GARNETS  
GIBBSITE  
HODGKINSONITE  
KAOLINITE  
MERWINITE  
MONTICELLITE  
MONTMORILLONITE  
NEPHELINE  
POTASSIUM SILICATES  
PROPHYLLITE  
PYROXENES  
SODIUM SILICATES  
SPODUMENE  
SPURRITE  
TALC  
TOURNALINE

# SILICIDES

YTTRIUM-ALUMINUM GARNET  
YTTRIUM-IRON GARNET  
BT #MINERALS  
#SILICON COMPOUNDS  
RT AMPHIBOLES  
DISILICIDES  
SILICIDES  
SILICON DIOXIDE  
VERMICULITE  
ZEOLITES  
SILICIDES  
1801 1804 1805  
NT DISILICIDES  
BT #SILICON COMPOUNDS  
RT INTERNETALLICS  
SILICATES  
SILICON  
0603 1805 1807  
NT SILICON ISOTOPES  
BT #CHEMICAL ELEMENTS  
GERMANIUM  
SILICON ALLOYS  
1701 1704 1805  
BT #ALLOYS  
SILICON CARBIDES  
1805 2602  
BT CARBIDES  
#CARBON COMPOUNDS  
#SILICON COMPOUNDS  
RT ABRASIVES  
CARBORUNDUM (TRADEMARK)  
#SILICON COMPOUNDS  
0603 1805  
NT ALUMINUM SILICATES  
ANDESITE  
ABAGONITE  
BERYL  
CALCIUM SILICATES  
CHLOROSILANES  
COESITE  
CORDIERITE  
DISILICIDES  
ENSTATITE  
FAYALITE  
FELDSPARS  
FLINT  
FLUOROSILICATES  
FORSTERITE  
GARNETS  
GEHLENITE  
HODGKINSONITE  
KAOLINITE  
MERWINITE  
METHYL CHLOROSILANES  
METHYLISOCYANATOSILANE  
MONTICELLITE  
MONTMORILLONITE  
MUSCOVITE  
NEPHELINE  
NEPHELINE  
NORBERGITE  
ORGANIC SILICON COMPOUNDS  
POTASSIUM SILICATES  
PYROPHYLLITE  
PYROXENES  
QUARTZ  
SILANES  
SILICATES  
SILICIDES  
SILICON CARBIDES  
SILICON DIOXIDE  
SILICON NITRIDES  
SILICON OXIDES  
SILICON TETRACHLORIDE  
SODIUM SILICATES  
SPODUMENE  
SPURRITE  
STANNOSILOXANE  
TALC  
TOURNALINE  
TRIPHENYL SILICON  
YTTRIUM-ALUMINUM GARNET  
YTTRIUM-IRON GARNET  
RT GROUP 4A COMPOUNDS  
METHYL POLYSILOXANE  
SILICONES  
SILOXANES  
SILICON CONTROLLED RECTIFIERS  
0902 0905 0906  
UF SCR (RECTIFIERS)  
RT THYRATRONS

SILICON DIOXIDE  
0603 1801 1804  
UF REPRASIL (TRADEMARK)  
SILICA  
NT COESITE  
QUARTZ  
BT #CHALCOGENIDES  
DIOXIDES  
OXIDES  
#SILICON COMPOUNDS  
SILICON OXIDES  
RT BOROSILICATE GLASS  
CERAMICS  
ENSTATITE  
GLASS  
OBSIDIAN GLASS  
PORCELAIN  
QUARTZ CRYSTALS  
S GLASS  
SANDS  
SILICA GLASS  
SILICATES  
VYCOR  
SILICON FILMS  
1506 1802 1805 2602  
BT FILMS  
SEMICONDUCTOR DEVICES  
THIN FILMS  
SILICON ISOTOPES  
0603 1805 1807  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
METALLOIDS  
SILICON  
SILICON JUNCTIONS  
0902 0906 2602  
BT SEMICONDUCTOR JUNCTIONS  
RT SILICON TRANSISTORS  
SILICON NITRIDES  
0603 1804  
BT NITRIDES  
#NITROGEN COMPOUNDS  
#SILICON COMPOUNDS  
SILICON OXIDES  
1804 1805 2602  
NT COESITE  
MUSCOVITE  
NEPHELINE  
NORBERGITE  
QUARTZ  
SILICON DIOXIDE  
SPODUMENE  
BT #CHALCOGENIDES  
OXIDES  
#SILICON COMPOUNDS  
#SILICON POLYMERS  
1808 1809 1810  
NT METHYL POLYSILOXANE  
SILICONE RESINS  
SILICONES  
SILOXANES  
RT POLYMERS  
SILICON RADIATION DETECTORS  
0906 2403 2602  
BT #MEASURING INSTRUMENTS  
RADIATION DETECTORS  
RADIATION MEASURING INSTRUMENTS  
SILICON RECTIFIERS  
USE CRYSTAL RECTIFIERS  
SILICON SOLAR CELLS  
USE SOLAR CELLS  
SILICON TETRACHLORIDE  
1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#SILICON COMPOUNDS  
SILICON TRANSISTORS  
0905 0906 2602  
BT #ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
TRANSISTORS  
RT SILICON JUNCTIONS  
SILICONE RESINS  
1802 1805 1808 1810  
BT #RESINS  
#SILICON POLYMERS  
RT SILICONE RUBBER  
THERMOSETTING RESINS

# NASA THESAURUS (ALPHABETICAL LISTING)

SILICONE RUBBER  
1802 1805 1808 1809 1810  
BT #RUBBER  
RT ELASTOMERS  
SILICONE RESINS  
SYNTHETIC RUBBERS  
SILICONES  
1805 1808 1810  
NT METHYL POLYSILOXANE  
SILOXANES  
BT #SILICON POLYMERS  
RT POLYMERS  
#SILICON COMPOUNDS  
SILICONIZING  
0602 1702 1704 3404  
BT #HARDENING (MATERIALS)  
RT COATING  
#COATINGS  
CORROSION PREVENTION  
CORROSION RESISTANCE  
OXIDATION RESISTANCE  
PASSIVITY  
SILK  
1811  
BT FABRICS  
#FIBERS  
RT ORGANIC MATERIALS  
SILKWORMS  
0402  
BT #ANIMALS  
ARTHROPODS  
INSECTS  
INVERTEBRATES  
MOTHS  
SILOS (MISSILE STORAGE)  
USE MISSILE SILOS  
SILOXANES  
1804 1805 1810  
BT #SILICON POLYMERS  
SILICONES  
RT POLYMERS  
#SILICON COMPOUNDS  
SILVER  
1703  
NT SILVER ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
NOBLE METALS  
SILVER ALLOYS  
1701 1704  
BT #ALLOYS  
RT BEARING ALLOYS  
SILVER BROMIDES  
0603 1804  
BT BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#SILVER COMPOUNDS  
SILVER HALIDES  
SILVER CADMIUM BATTERIES  
0302 0603 0904  
UF CADMIUM SILVER BATTERIES  
RT ELECTRIC BATTERIES  
#ELECTROCHEMICAL CELLS  
STORAGE BATTERIES  
RT NICKEL CADMIUM BATTERIES  
SILVER ZINC BATTERIES  
SILVER CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#SILVER COMPOUNDS  
SILVER HALIDES  
#SILVER COMPOUNDS  
0603 1804  
NT SILVER BROMIDES  
SILVER CHLORIDES  
SILVER HALIDES  
SILVER IODIDES  
SILVER NITRATES  
SILVER OXIDES  
RT GROUP 1B COMPOUNDS  
METAL COMPOUNDS  
SILVER HALIDES  
0603 1804  
NT SILVER BROMIDES  
SILVER CHLORIDES  
SILVER HALIDES

# NASA THESAURUS (ALPHABETICAL LISTING)

SILVER IODIDES  
 BT HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 #SILVER COMPOUNDS  
 SILVER IODIDES  
 0603 1804  
 BT HALIDES  
 #HALOGEN COMPOUNDS  
 IODIDES  
 IODINE COMPOUNDS  
 METAL HALIDES  
 #SILVER COMPOUNDS  
 SILVER HALIDES  
 SILVER ISOTOPE  
 0603 1703 1704 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPE  
 NOBLE METALS  
 NUCLIDES  
 SILVER  
 SILVER NITRATES  
 0603 1804  
 BT INORGANIC NITRATES  
 NITRATES  
 #NITROGEN COMPOUNDS  
 #SILVER COMPOUNDS  
 SILVER OXIDE ZINC BATTERIES  
 USE SILVER ZINC BATTERIES  
 SILVER OXIDES  
 0603 1804  
 BT #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 #SILVER COMPOUNDS  
 SILVER ZINC BATTERIES  
 0302 0603 0904  
 UP SILVER OXIDE ZINC BATTERIES  
 ZINC SILVER BATTERIES  
 ZINC SILVER OXIDE BATTERIES  
 BT ELECTRIC BATTERIES  
 #ELECTROCHEMICAL CELLS  
 STORAGE BATTERIES  
 RT SILVER CADMIUM BATTERIES  
 SIMICOR (IMAGE CORRELATOR)  
 USE IMAGE CORRELATORS  
 SIMILARITIES  
 USE ANALOGIES  
 SIMILARITY NUMBERS  
 1902  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT DIMENSIONAL ANALYSIS  
 SCALING LAWS  
 SIMILARITY THEOREM  
 1902 2311 3304 3404  
 NT LAGRANGE SIMILARITY HYPOTHESIS  
 BT #THEOREMS  
 RT DYNAMIC MODELS  
 MATHEMATICAL MODELS  
 SCALE MODELS  
 SIMILITUDE LAW  
 1902 2311 3304 3404  
 BT #LAWS  
 RT GRAVITATION  
 #INERTIA  
 SCALE MODELS  
 VISCOSITY  
 SIMPLE HARMONIC MOTION  
 2308 2311  
 BT HARMONIC MOTION  
 RT ACOUSTICS  
 FOURIER ANALYSIS  
 HARMONIC EXCITATION  
 SIMPLIFICATION  
 1902 3407  
 RT ASSUMPTIONS  
 LINEARIZATION  
 SIMULATED ALTITUDE  
 0201 0504 1107 1108  
 BT ALTITUDE  
 RT FLIGHT ALTITUDE  
 HIGH ALTITUDE  
 #SIMULATION  
 0502 0804 1902 3407 1107  
 NT ACOUSTIC SIMULATION  
 ALTITUDE SIMULATION  
 ANALOG SIMULATION  
 ATMOSPHERIC ENTRY SIMULATION  
 COMPUTERIZED SIMULATION  
 CONTROL SIMULATION  
 DIGITAL SIMULATION

ENVIRONMENT SIMULATION  
 EXHAUST FLOW SIMULATION  
 FLIGHT SIMULATION  
 LANDING SIMULATION  
 RHEOELECTRICAL SIMULATION  
 SOLAR SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 THERMAL SIMULATION  
 WEIGHTLESSNESS SIMULATION  
 BT ANALOGIES  
 #BIONICS  
 #DATA PROCESSING EQUIPMENT  
 DECEPTION  
 GAME THEORY  
 HEURISTIC METHODS  
 HYPERVELOCITY PROJECTILES  
 MATHEMATICAL MODELS  
 MONTE CARLO METHOD  
 OPERATIONS RESEARCH  
 #SIMULATORS  
 SPACECRAFT CABIN SIMULATORS  
 SYSTEMS ANALYSIS  
 VALIDITY  
 WAR GAMES  
 SIMULATOR TRAINING  
 USE TRAINING SIMULATORS  
 #SIMULATORS  
 0502 0804 1902 1107  
 NT COCKPIT SIMULATORS  
 CONTROL SIMULATION  
 ENVIRONMENT SIMULATORS  
 FLIGHT SIMULATORS  
 HIGH VACUUM ORBITAL SIMULATOR  
 LUNAR GRAVITY SIMULATOR  
 LUNAR ORBIT AND LANDING SIMULATORS  
 SHOCK SIMULATORS  
 SOLAR SIMULATORS  
 SPACE SIMULATORS  
 SPACECRAFT CABIN SIMULATORS  
 TARGET SIMULATORS  
 TRAINING SIMULATORS  
 VIBRATION SIMULATORS  
 RT ANALOGS  
 DUMMIES  
 MISSILE SIMULATORS  
 #MODELS  
 #SIMULATION  
 TEST EQUIPMENT  
 #TEST FACILITIES  
 TRAINING DEVICES  
 SIMULTANEOUS EQUATIONS  
 1902  
 RT EQUATIONS  
 LEAST SQUARES METHOD  
 MATRICES (MATHEMATICS)  
 SIMULTANEOUS IMAGE CORRELATOR  
 USE IMAGE CORRELATORS  
 SINE  
 USE TRIGONOMETRIC FUNCTIONS  
 SINE SERIES  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 CALCULUS  
 #FUNCTIONS (MATHEMATICS)  
 PERIODIC FUNCTIONS  
 REAL VARIABLES  
 SERIES (MATHEMATICS)  
 TRANSCENDENTAL FUNCTIONS  
 TRIGONOMETRIC FUNCTIONS  
 SINE WAVES  
 1002 1902  
 UP SINUSOIDS  
 RT #ELASTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 TRIGONOMETRIC FUNCTIONS  
 WAVES  
 SINGLE CRYSTALS  
 1704 2601  
 UP MONOCRYSTALS  
 NT WHISKERS (SINGLE CRYSTALS)  
 BT #CRYSTALS  
 BICRYSTALS  
 BOULES  
 BRAVAIS CRYSTALS  
 #CRYSTAL LATTICES  
 DIAMONDS  
 GRAPHITE  
 NEEDLES  
 PIEZOELECTRIC CRYSTALS  
 POLYCRYSTALS  
 ULTRAPURE METALS

## SINKS

SINGLE-PHASE FLOW  
 1202 1203  
 BT #FLUID FLOW  
 RT CRITICAL FLOW  
 GAS FLOW  
 LAMINAR FLOW  
 LIQUID FLOW  
 MASS FLOW  
 MULTIPHASE FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 SINGLE SIDEBAND DEMODULATION  
 USE SINGLE SIDEBAND TRANSMISSION  
 SINGLE SIDEBAND MODULATION  
 USE SINGLE SIDEBAND TRANSMISSION  
 SINGLE SIDEBAND RECEIVERS  
 USE SINGLE SIDEBAND TRANSMISSION  
 SINGLE SIDEBAND TRANSMISSION  
 0701 0702 0710  
 UP SINGLE SIDEBAND DEMODULATION  
 SINGLE SIDEBAND MODULATION  
 SINGLE SIDEBAND RECEIVERS  
 BT ELECTROMAGNETIC WAVE TRANSMISSION  
 RADIO TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 RT AMPLITUDE MODULATION  
 DOUBLE SIDEBAND TRANSMISSION  
 SIDEBANDS  
 TELEVISION TRANSMISSION  
 VOICE COMMUNICATION  
 WAVE PROPAGATION  
 SINGLE STAGE ROCKET VEHICLES  
 2808 3106  
 NT AGENA A ROCKET VEHICLE  
 AGENA B ROCKET VEHICLE  
 AGENA C ROCKET VEHICLE  
 AGENA D ROCKET VEHICLE  
 AGENA ROCKET VEHICLES  
 ARCAS ROCKET VEHICLES  
 ARCHER SOUNDING ROCKET  
 BLACK BRANT 1 SOUNDING ROCKET  
 BLACK BRANT 2 SOUNDING ROCKET  
 BLACK BRANT 3 SOUNDING ROCKET  
 BLACK BRANT 4 SOUNDING ROCKET  
 BLACK BRANT 5 SOUNDING ROCKET  
 BLACK BRANT SOUNDING ROCKETS  
 BLACK KNIGHT ROCKET VEHICLE  
 DORNIER PARAGLIDER ROCKET VEHICLE  
 GENIE ROCKET VEHICLE  
 HONEST JOHN ROCKET VEHICLE  
 HYLA-STAR ROCKET VEHICLE  
 LITTLE JOHN ROCKET VEHICLE  
 LOKI ROCKET VEHICLE  
 NOMAD LAUNCH VEHICLE  
 SKYDART 2 ROCKET VEHICLE  
 VERONIQUE ROCKET VEHICLES  
 VERONIQUE V-27 ROCKET VEHICLE  
 VERONIQUE V-37 ROCKET VEHICLE  
 VIKING ROCKET VEHICLE  
 ZUNI ROCKET VEHICLE  
 BT #ROCKET VEHICLES  
 RT MAULER MISSILE  
 ROCKET ENGINES  
 SINGULAR INTEGRAL EQUATIONS  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 FUNCTIONAL ANALYSIS  
 INTEGRAL EQUATIONS  
 SINGULARITY (MATHEMATICS)  
 0802 1902  
 BT #ANALYSIS (MATHEMATICS)  
 COMPLEX VARIABLES  
 RT POINTS (MATHEMATICS)  
 UNIQUENESS  
 SINKING  
 1301 1302 2310  
 RT FALLING  
 #REFRACTION  
 SUBMERGING  
 SINKS  
 3304  
 (EXCLUDES PLUMBING FIXTURES--LIMITED  
 TO AREAS FOR ABSORPTIVE DISPOSAL OF

# SINTERED ALUMINUM POWDER

HEAT OR FLUIDS)  
RT HEAT SINKS  
RT ABSORBERS (MATERIALS)  
DISPOSAL  
SOURCES

# SINTERED ALUMINUM POWDER

1507 1704  
BT ALUMINUM  
#CHEMICAL ELEMENTS  
RT POWDER METALLURGY  
POWDERED ALUMINUM

# SINTERING

1504 1704 3407  
UP PRESINTERING  
RT AGGLOMERATION  
FURNACES  
#GROWTH  
#HEATING  
HOT PRESSING  
METAL POWDER  
MIXED CRYSTALS  
POROSITY  
POWDER METALLURGY  
PYROMETALLURGY  
ROASTING  
SHRINKAGE

# SINUSES

0404 0405  
RT PARANASAL SINUSES  
RT CAROTID SINUS REFLEX  
NOSE (ANATOMY)  
RESPIRATION

# SINUSOIDS

USE SINE WAVES

# SILOUX HELICOPTER

USE OH-13 HELICOPTER

# SIPHONS

0603 1202  
RT MATERIALS HANDLING  
PIPELINES  
PIPES (TUBES)  
#PUMPS  
TUBES

# SIRENS

0203 1102 2301 3401  
RT HORNS  
NOISE INTENSITY  
SIGNAL GENERATORS  
SIGNALS  
SOUND GENERATORS  
SOUND INTENSITY  
SOUND TRANSMISSION  
#WARNING SYSTEMS

# SIRS B SATELLITE

2003 2004 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
#SATELLITES  
RT METEOROLOGICAL FLIGHT  
METEOROLOGICAL INSTRUMENTS  
SATELLITE OBSERVATION  
#UNMANNED SPACECRAFT

# SITE DATA PROCESSORS

0708 0801 0802 1101 1102 1104 1106  
1108 1109 1410 3405  
UP SDP (COMPUTERS)  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
RT APOLLO PROJECT  
DATA LINKS  
#DATA PROCESSING

# #SITES

1101 1104 1108  
UP TRACTS  
RT LANDING SITES  
LAUNCHING PADS  
LAUNCHING SITES  
LUNAR LANDING SITES  
AIRPORT PLANNING  
FACILITIES  
LAND  
PLOTS  
POSITION (LOCATION)  
#REGIONS  
SITTING POSITION  
0408 0506 3407  
RT PRONE POSITION  
REST  
SEATS  
SUPINE POSITION

# SIZE (DIMENSIONS)

1902 1903 3408

# RT FINENESS

# SIZE DETERMINATION

1406

RT PRECIPITATION PARTICLE MEASUREMENT  
RT BODY MEASUREMENT (BIOLOGY)

CLASSIFIERS  
DIMENSIONAL MEASUREMENT  
MEASUREMENT  
PARTICLE SIZE DISTRIBUTION  
SIZE SEPARATION  
SIZING

# SIZE PERCEPTION

USE SPACE PERCEPTION

# SIZE SEPARATION

0602 1406 1504

UP SIZING (SEPARATION)

RT BENEFICIATION  
CLASSIFIERS  
CLASSIFYING  
CONCENTRATORS  
FILTRATION  
FLOTATION  
METAL POWDER  
PARTICLE SIZE DISTRIBUTION  
POWDER (PARTICLES)  
SEPARATION  
SETTLING  
SIZE DETERMINATION  
SIZING

# SIZING

1504 1507

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT BODY MEASUREMENT (BIOLOGY)

SIZE DETERMINATION

SIZE SEPARATION

SIZING (SHAPING)

SIZING (SURFACE TREATMENT)

SIZING MATERIALS

SIZING (SEPARATION)

USE SIZE SEPARATION

SIZING (SHAPING)

1504 1704 3404

BT #METAL WORKING

RT COINING

PRESSING (FORGING)

SIZING

SIZING (SURFACE TREATMENT)

1504 1704 3404

(EXCLUDES MECHANICAL SHAPING OR

REMOVAL OF SURFACE MATERIALS)

RT FINISHES

SIZING

SIZING MATERIALS

3404

(MATERIALS USED FOR SURFACE TREATMENT)

RT #BINDERS (MATERIALS)

CLAYS

FILLERS

GLUES

SIZING

SIZING (SURFACE TREATMENT)

STARCHES

SIZING SCREENS

0602 3404

BT CLASSIFIERS

#SEPARATORS

AGITATION

CONCENTRATORS

FLUID FILTERS

SCREENS

SHAKERS

SIEVES

# SKELETON

USE MUSCULOSKELETAL SYSTEM

# SKEWNESS

1905 3408

RT ASYMMETRY

#DEFORMATION

DISPLACEMENT

DISTORTION

DISTRIBUTION MOMENTS

ECCENTRICITY

#MOMENTS

# SKID LANDINGS

0201 0203

BT AIRCRAFT LANDING

#LANDING

# NASA THESAURUS (ALPHABETICAL LISTING)

RT CRASH LANDING

HYDROPLANING

SKIDDING

# SKIDDING

0201 0203

RT HYDROPLANING

LANDING GEAR

SIDESLIP

SKID LANDINGS

SLEDS

YAW

# SKILLS

USE ABILITIES

# SKIN (ANATOMY)

0404 0405

RT EPIDERMIS

EPITHELIUM

LEATHER

RT BLISTERS

CAROTENE

CHLOROPHYLLS

COLLAGENS

CONTACT DERMATITIS

CYTOCHROMES

DERMATITIS

DERMATOLOGY

EVAPORATION

HONEOSTASIS

MELANIN

#MEMBRANES

NEVUS

PERSPIRATION

PETECHIA

PIGMENTS

#SECRECTIONS

SENSE ORGANS

THERMORECEPTORS

TOUCH

# SKIN (STRUCTURAL MEMBER)

0102 0104 0202 1504 3202 3305

BT MEMBRANE STRUCTURES

#MEMBRANES

#STRUCTURAL MEMBERS

RT CONSTRUCTION MATERIALS

HULLS (STRUCTURES)

METAL SHELLS

#SHELLS (STRUCTURAL FORMS)

STRESSED-SKIN STRUCTURES

THIN WALLED SHELLS

THIN WALLS

TOROIDAL SHELLS

WEBB (SUPPORTS)

# SKIN FRICTION

0102 1503 3105 3303

UP FRICTION PRESSURE DROP

RT AERODYNAMIC DRAG

FRICTION DRAG

SUPERSONIC DRAG

VISCOUS DRAG

BT #FRICTION

RT AERODYNAMIC HEATING

DRAG

#DRAG DEVICES

FLOW RESISTANCE

#FLUID FLOW

FRICTION FACTOR

SKIN TEMPERATURE (NON-BIOLOGICAL)

STREAMLINING

# SKIN FRICTION DRAG

USE FRICTION DRAG

# SKIN GRAFTS

0405 0408

RT SURGERY

THERAPY

# SKIN RESISTANCE

0102 1503 3305

BT ELECTRICAL IMPEDANCE

#ELECTRICAL PROPERTIES

ELECTRICAL RESISTANCE

#IMPEDANCE

RT RESISTANCE

# SKIN TEMPERATURE (BIOLOGY)

0405 0408

BT #TEMPERATURE

RT HYPERTHERMIA

HYPOTHERMIA

# SKIN TEMPERATURE (NON-BIOLOGICAL)

0101 0102 3106 3303

UP RECOVERY TEMPERATURE

BT #SURFACE PROPERTIES

SURFACE TEMPERATURE

#TEMPERATURE

# NASA THESAURUS (ALPHABETICAL LISTING)

RT AERODYNAMIC HEATING  
AEROTHERMODYNAMICS  
SKIN FRICTION  
SKINNER BOXES  
0408 0410  
RT BEHAVIOR  
PSYCHOLOGICAL TESTS  
PSYCHOMETRICS  
SKIRTS  
2806 3106  
RT AFTERBODIES  
BOATTAILS  
CONICAL NOZZLES  
EXHAUST NOZZLES  
FOUNDATIONS  
JET NOZZLES  
ROCKET NOZZLES  
SKIS  
0203  
RT HYDROFOILS  
HYDROPLANES (SURFACES)  
LANDING GEAR  
SKUA ROCKET VEHICLES  
3106 3108  
BT #ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
SKULL  
0404 0405  
NT CRANIUM  
INTRACRANIAL CAVITY  
BT #ANATOMY  
BONES  
HEAD (ANATOMY)  
MUSCULOSKELETAL SYSTEM  
RT INTERCRANIAL CIRCULATION  
SKY  
1301 1302 2003  
NT NIGHT SKY  
RT CLOUD COVER  
CLOUDS (METEOROLOGY)  
DAYGLOW  
RAYLEIGH SCATTERING  
SKY BRIGHTNESS  
SUNLIGHT  
SKY BRIGHTNESS  
1301 1302 2003 2306 2902 2903  
RT AIRGLOW  
AURORAS  
CLOUD COVER  
DAYTIME  
ELECTROMAGNETIC PROPERTIES  
GEGENSCHIEIN  
GLARE  
LIGHT (VISIBLE RADIATION)  
LIGHT EMISSION  
LUMINANCE  
NIGHT  
NIGHT SKY  
NIGHTGLOW  
SKY  
SKY RADIATION  
SOLAR RADIATION  
SUNLIGHT  
ZODIACAL LIGHT  
SKY RADIATION  
1301 1302 2902 2903  
NT AIRGLOW  
DAYGLOW  
GEOCORONAL EMISSIONS  
NIGHTGLOW  
TWILIGHT GLOW  
BT #ATMOSPHERIC RADIATION  
#ELECTROMAGNETIC RADIATION  
LIGHT (VISIBLE RADIATION)  
RT BACKGROUND RADIATION  
PYRANOMETERS  
SKY BRIGHTNESS  
SKY WAVES  
STRATOSPHERE RADIATION  
SUNLIGHT  
THERMAL RADIATION  
TROPOSPHERIC RADIATION  
SKY WAVES  
0703 0710 1302  
BT #ELECTROMAGNETIC RADIATION  
RADIO WAVES  
RT GROUND WAVE PROPAGATION  
IONOSPHERIC NOISE  
SKY RADIATION  
SKYBOLT MISSILE  
3101 3401

BT BALLISTIC MISSILES  
#MISSILES  
RT SOLID PROPELLANT ROCKET ENGINES  
SKYCRANE HELICOPTER  
USE CH-54 HELICOPTER  
SKYDART 2 ROCKET VEHICLE  
3106  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
RT AIR TO AIR MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
#TARGETS  
SKYDROL (TRADEMARK)  
0202 1808 1809  
BT HYDRAULIC FLUIDS  
#LIQUIDS  
RT #ESTERS  
PHOSPHATES  
PLASTICIZERS  
SKYHAWK AIRCRAFT  
USE A-4 AIRCRAFT  
SKYHOOK BALLOONS  
0205 2002 2003 3409  
BT BALLOONS  
#EXPANDABLE STRUCTURES  
HIGH ALTITUDE BALLOONS  
INFLATABLE STRUCTURES  
RT HIGH ALTITUDE  
METEOROLOGICAL BALLOONS  
ROBIN BALLOONS  
ROCKOONS  
SKYLAB PROGRAM  
3409  
BT NASA PROGRAMS  
#PROGRAMS  
RT AAP 1 MISSION  
AAP 2 MISSION  
AAP 3 MISSION  
AAP 4 MISSION  
AIRLOCK MODULES  
APOLLO APLIGHTS  
APOLLO APPLICATIONS PROGRAM  
APOLLO FLIGHTS  
APOLLO PROJECT  
APOLLO SPACECRAFT  
APOLLO TELESCOPE MOUNT  
EARTH RESOURCES PROGRAM  
ORBITAL WORKSHOPS  
SATURN 1 WORKSHOP  
SATURN 5 WORKSHOP  
SATURN WORKSHOPS  
SKYLARK  
USE SKYLARK ROCKET VEHICLE  
SKYLARK ROCKET VEHICLE  
3106 3108 3409  
UP SKYLARK  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
SOUNDING ROCKETS  
RT SOLID PROPELLANT ROCKET ENGINES  
SKYMASTER AIRCRAFT  
USE C-54 AIRCRAFT  
SKYNET SATELLITES  
0702 0706 3107  
BT ARTIFICIAL SATELLITES  
#SATELLITES  
RT COMMUNICATION SATELLITES  
SATELLITE NETWORKS  
SKYRAIDER AIRCRAFT  
USE A-1 AIRCRAFT  
SKYROCKET AIRCRAFT  
USE D-558 AIRCRAFT  
SKYSTREAK AIRCRAFT  
USE D-558 AIRCRAFT  
SKYVAN AIRCRAFT  
USE SC-7 AIRCRAFT  
SKYWARRIOR AIRCRAFT  
USE A-3 AIRCRAFT  
SL-3 ROCKET ENGINE  
2809  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
SLABS  
3202 3305  
RT BILLETS  
BLOCKS  
FLAT PLATES  
METAL PLATES  
PLATES (STRUCTURAL MEMBERS)  
PLATFORMS  
#STRUCTURAL MEMBERS

## SLEWING

SLAGS  
1704 3301  
RT AGGREGATES  
#WASTES  
SLAM SUPERSONIC LOW ALTITUDE MISSILE  
2204 3101 3401  
BT #MISSILES  
RAMJET MISSILES  
SURFACE TO SURFACE MISSILES  
RT NUCLEAR RAMJET ENGINES  
PLUTO REACTORS  
RAMJET ENGINES  
SLAMMING  
3407  
RT FLUID DYNAMICS  
SLANT  
USE SLOPES  
SLANT PERCEPTION  
USE SPACE PERCEPTION  
SLATER ORBITALS  
2401 2403  
BT ORBITALS  
RT ORBITAL ELEMENTS  
SLATS  
USE LEADING EDGE SLATS  
SLEDS  
1107 1108  
NT ROCKET PROPELLED SLEDS  
BT #SURFACE VEHICLES  
RT DOLLIES  
SKIDDING  
TOWED BODIES  
TRACTORS  
TRAILERS  
SLEEP  
0401 0408  
UP DROWSINESS  
NT HYPERSOMNIA  
HYPNOSIS  
INSOMNIA  
RT DREAMS  
DRIVES  
RAPID EYE MOVEMENT STATE  
REST  
SLEEP DEPRIVATION  
0408 0410  
BT DEPRIVATION  
RT CONSCIOUSNESS  
INSOMNIA  
WAKEFULNESS  
SLEEVES  
1504  
(EXCLUDES CLOTHING)  
RT CONNECTORS  
COUPLINGS  
#FASTENERS  
FITTINGS  
#JOINTS (JUNCTIONS)  
SLENDER BODIES  
0101 0102 3110 3203  
NT SLENDER CONES  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
AXISYMMETRIC BODIES  
BODIES  
DUCTED BODIES  
FINENESS RATIO  
MISSILE BODIES  
STREAMLINED BODIES  
#SYMMETRICAL BODIES  
THIN BODIES  
SLENDER CONES  
0101 0102 0104 3110 3203  
BT BODIES OF REVOLUTION  
#CONES  
CONICAL BODIES  
SLENDER BODIES  
#SYMMETRICAL BODIES  
RT AERODYNAMIC CONFIGURATIONS  
AXISYMMETRIC BODIES  
SLENDER WINGS  
0101 0102 0104 0202 3203  
UP HIGH ASPECT RATIO WINGS  
NT INFINITE SPAN WINGS  
BT #AIRFOILS  
WINGS  
RT FIXED WINGS  
WING PLANFORMS  
SLEWING  
0705 0901 1003  
RT ANTENNAS  
ERROR SIGNALS



## SLICING

POSITIONING DEVICES (MACHINERY)  
 RADAR TRACKING  
 SERVOMOTORS  
 SPINNERS

SLICING  
 1504 3407  
 BT CUTTING  
 RT METAL CUTTING  
 PLANING  
 PLANNING  
 SCARPING  
 SEPARATION  
 SPLITTING

SLIDES  
 USE CHUTES

SLIDING  
 1103 1502 1504  
 RT INTERFACIAL TENSION  
 LUBRICATION  
 MASS FLOW  
 SLIDING FRICTION  
 SLIP  
 SLUMPING  
 STATIC FRICTION

SLIDING CONTACT  
 0902 0904 0905 1002 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ELECTRIC CONTACTS  
 SLIDING FRICTION

SLIDING FRICTION  
 1503 2308 3303  
 BT #FRICTION  
 RT KINETIC FRICTION  
 COEFFICIENT OF FRICTION  
 DRY FRICTION  
 ELECTRIC CONTACTS  
 SLIDING  
 SLIDING CONTACT  
 STATIC FRICTION  
 WEAR

SLIP  
 0101 0201 1103 1106 1202 1305 1504 3407  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT PLASTIC DEFORMATION  
 POLYSLIPS  
 SIDESLIP  
 SLIDING

SLIP BANDS  
 USE EDGE DISLOCATIONS

SLIP CASTING  
 0602 1507 1801  
 BT CASTING  
 #FORMING TECHNIQUES

SLIP FLOW  
 1203  
 (RAREFIED GAS FLOW IN THE REGION  
 BETWEEN KNUDSEN NUMBERS 0.01 AND 0.1  
 ONLY, EXCLUDES TRANSITION FLOW, FREE  
 MOLECULE FLOW CREEP, SHEAR FLOW, AND  
 PLASTIC FLOW)  
 RT #FLUID FLOW  
 GAS FLOW  
 MOLECULAR FLOW  
 RT CONTINUUM FLOW  
 FREE MOLECULAR FLOW  
 LOW DENSITY WIND TUNNELS  
 RAREFIED GAS DYNAMICS  
 TRANSITION FLOW

SLIPPERS  
 USE SHOES

SLIPSTREAMS  
 0101 1203  
 RT PROPELLER SLIPSTREAMS  
 BT AIRCRAFT WAKES  
 TURBULENT WAKES  
 #WAKES  
 RT BACKWASH  
 STROUHAL NUMBER  
 #TURBULENCE

SLITS  
 1404 1405 2310  
 BT #OPENINGS  
 RT APERTURES  
 FRESNEL REFLECTORS  
 SLOTS

SLIVERS  
 1704 1805  
 RT #FIBERS

## WOOD

SLOPES  
 1308 1902 2101 3203  
 UP CANT  
 SLANT  
 STEEPNESS  
 RT GLIDE PATHS  
 RT ANGLES (GEOMETRY)  
 CLIFFS  
 GRADE  
 #GRADIENTS  
 HEIGHT  
 INCLINATION  
 LEVEL (HORIZONTAL)  
 PITCH (INCLINATION)  
 PROFILES  
 RAKES  
 RAMP FUNCTIONS  
 RAMPS (STRUCTURES)  
 TOPOGRAPHY

SLOSHING  
 USE LIQUID SLOSHING

SLOT ANTENNAS  
 0701 0901  
 UP SLOTTED ANTENNAS  
 BT ANTENNAS  
 #CONDUCTORS  
 DIRECTIONAL ANTENNAS  
 RT ANTENNA DESIGN  
 HORN ANTENNAS  
 RADANT  
 RADAR ANTENNAS  
 WAVEGUIDE ANTENNAS

SLOTS  
 0102 0103 0104 1201  
 RT WING SLOTS  
 RT LIFT DEVICES  
 LOUVERS  
 #OPENINGS  
 SLITS

SLOTTED ANTENNAS  
 USE SLOT ANTENNAS

SLOTTED WIND TUNNELS  
 1110  
 BT #TEST FACILITIES  
 WIND TUNNELS  
 RT SUPERSONIC WIND TUNNELS  
 TRANSONIC WIND TUNNELS  
 VENTS

SLOW NEUTRONS  
 USE THERMAL NEUTRONS

SLUDGE  
 0505 3404  
 RT #DEPOSITS  
 MUD  
 OCEAN BOTTOM  
 SEDIMENTS  
 #WASTES

SLUMPING  
 1305 1306  
 RT GEOMORPHOLOGY  
 MASS FLOW  
 SLIDING

SLURRIES  
 0602 0603  
 BT #MIXTURES  
 RT DISPERSIONS  
 EMULSIONS  
 GELS  
 SLURRY PROPELLANTS

SLURRY PROPELLANTS  
 0602 2702 2804  
 BT CHEMICAL FUELS  
 #FUELS  
 LIQUID ROCKET PROPELLANTS  
 #LIQUIDS  
 #PROPELLANTS  
 ROCKET PROPELLANTS  
 RT AIRCRAFT FUELS  
 COLLOIDAL PROPELLANTS  
 DISPERSIONS  
 GELLED ROCKET PROPELLANTS  
 METAL FUELS  
 METAL PROPELLANTS  
 MONOPROPELLANTS  
 SLURRIES  
 SOLID ROCKET PROPELLANTS

SLUSH  
 0603 2001  
 RT CRYOGENIC ROCKET PROPELLANTS  
 #ICE  
 RUNWAY CONDITIONS

## NASA THESAURUS (ALPHABETICAL LISTING)

SNOW  
 WATER

SLV  
 USE STANDARD LAUNCH VEHICLES  
 SLV (SOFT LANDING VEHICLES)  
 USE #SOFT LANDING SPACECRAFT

SM-68B MISSILE  
 USE TITAN 2 ICBM

SM-65 MISSILE  
 USE ATLAS LAUNCH VEHICLES

SM-68 MISSILE  
 USE TITAN 1 ICBM

SMALL ASTRONOMY SATELLITES  
 UP SAS  
 BT #SATELLITES  
 RT EXPLORER 42 SATELLITE

SMALL PERTURBATION FLOW  
 0101 0102 1202 1203  
 RT FLOW DISTORTION  
 #FLUID FLOW  
 OSCILLATING FLOW

SMALL SCIENTIFIC SATELLITES  
 3107  
 BT #SATELLITES  
 SCIENTIFIC SATELLITES

SMALLPOX  
 0405 0408  
 BT #DISEASES  
 INFECTIOUS DISEASES

SMEAR  
 0702 1002 2310 2402  
 RT FREQUENCY RESPONSE  
 IMAGE CONTRAST  
 SIGNAL FADING  
 TELEVISION TRANSMISSION  
 VIDEO DATA

SHELL  
 USE OLFACTORY PERCEPTION

SMEETING  
 1704  
 RT MELTING  
 METALLURGY  
 REDUCTION CHEMISTRY  
 REFINING

SMITH CHART  
 0710 2309 2402  
 RT ELECTRICAL IMPEDANCE  
 #IMPEDANCE  
 POLAR COORDINATES  
 REACTANCE  
 STANDING WAVE RATIOS  
 #TRANSMISSION LINES  
 WAVEGUIDES

SMOG  
 0603 1202 2001 2003  
 RT AIR POLLUTION  
 AIR SAMPLING  
 CARBON MONOXIDE  
 COMBUSTION PRODUCTS  
 EXHAUST GASES  
 FLAMES  
 FOG  
 HYDROCARBON COMBUSTION  
 HYDROCARBON POISONING  
 LEAD POISONING  
 SMOKE

SMOKE  
 0505 0603 2003 3301  
 BT DISPERSIONS  
 #MIXTURES  
 PLASTISOLS  
 RT AEROSOLS  
 AIR POLLUTION  
 COMBUSTION PRODUCTS  
 #DUST  
 EXHAUST GASES  
 FOG  
 FUMES  
 MARKERS  
 #PARTICLES  
 SMOG  
 SMOKE ABATEMENT  
 SOOT  
 #VAPORS  
 VISIBILITY

SMOKE ABATEMENT  
 0504 0505  
 RT AEROSOLS  
 AIR POLLUTION  
 CARBON DIOXIDE REMOVAL  
 EXHAUST GASES  
 #POLLUTION

# NASA THESAURUS (ALPHABETICAL LISTING)

SMOKE  
SOOT  
SMOKE TRAILS  
0202 2003 3301  
RT TRACKS  
WIND DIRECTION  
WIND MEASUREMENT  
WIND PROFILES  
SMOOTHING  
0705 0710 1002 1902 1905  
NT DATA SMOOTHING  
RT ADJUSTING  
PLATEWEAVING  
HOVING  
LEVELING  
PLANING  
POLISHING  
ROUGHNESS  
SMOOTHNESS  
USE ROUGHNESS  
SMS  
USE SYNCHRONOUS METEOROLOGICAL  
SATELLITE  
SMU (MANEUVERING UNITS)  
USE SELF MANEUVERING UNITS  
SNAILS  
0402  
BT ANIMALS  
ARTHOPODS  
CEPHALOPODS  
INVERTEBRATES  
SNAKES  
0402  
BT ANIMALS  
MAMMALS  
POIKILOthermia  
REPTILES  
VERTEBRATES  
SNAKING  
USE LATERAL OSCILLATION  
SNAP  
0301 2201 2802  
UP SYSTEMS FOR NUCLEAR AUXILIARY POWER  
NT FISSION ELECTRIC CELLS  
SNAP 9A  
SNAP 10A  
SNAP 1  
SNAP 2  
SNAP 3  
SNAP 4  
SNAP 7  
SNAP 8  
SNAP 11  
SNAP 13  
SNAP 15  
SNAP 17  
SNAP 19  
SNAP 21  
SNAP 23  
SNAP 27  
SNAP 29  
SNAP 50  
SNAP 64  
SNAP 80  
SPACE POWER UNIT REACTORS  
BT AUXILIARY POWER SOURCES  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
BT ELECTRIC GENERATORS  
HEAT EXCHANGERS  
NUCLEAR POWER REACTORS  
SNAPTRAN REACTOR  
SYSTEMS  
THERMIONIC CONVERTERS  
THERMIONIC POWER GENERATION  
THERMOELECTRIC GENERATORS  
THERMOELECTRIC POWER GENERATION  
TRANSIENT REACTOR TEST FACILITY  
TURBOGENERATORS  
SNAP 9A  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 10A  
2201 2204 2802 3106  
BT AUXILIARY POWER SOURCES

DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
FISSION ELECTRIC CELLS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
SNAP  
SPACE POWER UNIT REACTORS  
THERMOELECTRIC GENERATORS  
RT HEAT EXCHANGERS  
SNAPSHOT SATELLITE  
SNAP 1  
2201 2802  
BT AUXILIARY POWER SOURCES  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
SNAP  
RT HEAT EXCHANGERS  
TURBOGENERATORS  
SNAP 2  
2201 2802  
BT AUXILIARY POWER SOURCES  
FISSION ELECTRIC CELLS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
SNAP  
SPACE POWER UNIT REACTORS  
RT HEAT EXCHANGERS  
TURBOGENERATORS  
SNAP 3  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 4  
2201 2802  
BT AUXILIARY POWER SOURCES  
FISSION ELECTRIC CELLS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
SNAP  
SPACE POWER UNIT REACTORS  
SNAP 7  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 8  
2201 2204 2802  
BT AUXILIARY POWER SOURCES  
FISSION ELECTRIC CELLS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
SNAP  
SPACE POWER UNIT REACTORS  
RT HEAT EXCHANGERS  
TURBOGENERATORS  
SNAP 11  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 13  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP

## SNAPTRAN REACTOR

THERMIONIC CONVERTERS  
RT THERMIONIC POWER GENERATION  
SNAP 15  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 17  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 19  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 21  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 23  
2201 2802  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 27  
2201 2802 2803  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 29  
2201 2802 2803  
BT AUXILIARY POWER SOURCES  
DIRECT POWER GENERATORS  
ELECTRIC GENERATORS  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
RADIOISOTOPE BATTERIES  
SNAP  
THERMOELECTRIC GENERATORS  
SNAP 50  
2201 2802  
BT AUXILIARY POWER SOURCES  
NUCLEAR AUXILIARY POWER UNITS  
NUCLEAR ELECTRIC POWER GENERATION  
SNAP  
SNAPSHOT SATELLITE  
3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
SATELLITES  
RT SNAP 10A  
SNAPTRAN REACTOR  
2201 2204

# SWATCHING

BT #NUCLEAR REACTORS  
RT REACTORS  
SNAP  
SWATCHING  
USE SPACECRAFT RECOVERY  
SWEEZING  
0405 0408  
BT #REFLEXES  
RESPIRATORY REFLEXES  
RT VASOCONSTRICTION  
SHELLEN TESTS  
0405 0408  
RT VISUAL ACUITY  
SHELLS LAW  
2310  
BT #LAWS  
RT OPTICS  
#REFRACTION  
REFRACTIVITY  
SNOW  
2001 2003 2303  
BT PRECIPITATION (METEOROLOGY)  
RT CLOUD GLACIATION  
ICE FORMATION  
SLUSH  
STORMS (METEOROLOGY)  
SNOW AERIAL APPLICATOR AIRCRAFT S-2B  
USE S-2 AIRCRAFT  
SNOW AIRCRAFT  
0201 0204  
RT AIRCRAFT  
SNOW COVER  
2001 2003 2303  
BT PRECIPITATION (METEOROLOGY)  
RT CLOUD GLACIATION  
COLD WEATHER  
#STORMS  
STORMS (METEOROLOGY)  
SNOW S-2 AIRCRAFT  
USE S-2 AIRCRAFT  
SNOWFLOW EFFECT  
USE PLASMA DYNAMICS  
SOAKING  
0602 1701 1704 3303  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BATHS  
#HEAT TREATMENT  
#HEATING  
SUBMERGING  
WETTING  
SOAPS  
0504 1808  
RT DETERGENTS  
STEARATES  
SURFACTANTS  
WETTING  
SOARING  
0101 0201 0205  
RT CLIMBING FLIGHT  
COASTING FLIGHT  
FLIGHT  
#GLIDERS  
GLIDING  
HORIZONTAL FLIGHT  
VERTICAL AIR CURRENTS  
SOCIAL FACTORS  
0410 3402 3403  
BT SOCIOLOGY  
RT ANTHROPOLOGY  
CULTURE (SOCIAL SCIENCES)  
POLICE  
RACE FACTORS  
URBAN PLANNING  
URBAN RESEARCH  
VARIABLE  
SOCIAL ISOLATION  
0410 3402  
BT ISOLATION  
RT SOCIOLOGY  
SOCIAL PSYCHIATRY  
0405 0408 0410 3402  
BT #MEDICAL SCIENCE  
PSYCHIATRY  
RT SOCIOLOGY  
SOCIOLOGY  
3402  
RT SOCIAL FACTORS  
RT ANTHROPOLOGY  
CASE HISTORIES  
CITIES

COMMUNES  
#COMMUNITIES  
CULTURE (SOCIAL SCIENCES)  
DEPENDENCE  
GROUP DYNAMICS  
MINORITIES  
POLITICS  
RACE FACTORS  
RETIREMENT  
SOCIAL ISOLATION  
SOCIAL PSYCHIATRY  
SYSTEMS ANALYSIS  
URBAN PLANNING  
SOCKETS  
USE ELECTRIC OUTLETS  
SOCKS  
1811  
BT #CLOTHING  
SOD  
0404 1305  
RT GRASSES  
SODALITE  
0605 1407 2306  
RT #CHEMICAL REACTIONS  
PHOTOCHEMICAL REACTIONS  
PHOTOCHROMISM  
SODIUM  
0603 1703  
NT LIQUID SODIUM  
SODIUM ISOTOPES  
SODIUM VAPOR  
SODIUM 22  
SODIUM 24  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
#METALS  
RT LIQUID METAL COOLED REACTORS  
SODIUM ALLOYS  
1701 1704  
BT #ALLOYS  
SODIUM AZIDES  
0603 1804  
BT AZIDES (INORGANIC)  
AZIDES (ORGANIC)  
#NITROGEN COMPOUNDS  
#SODIUM COMPOUNDS  
RT DETONATORS  
EXPLOSIVES  
SODIUM BROMIDES  
0603 1804  
BT ALKALI HALIDES  
BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#SODIUM COMPOUNDS  
SODIUM CARBONATES  
0603 1808  
BT #CARBON COMPOUNDS  
CARBONATES  
#SODIUM COMPOUNDS  
SODIUM CHLORIDES  
0603 1804  
BT ALKALI HALIDES  
CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#SODIUM COMPOUNDS  
RT SALTS  
SODIUM CHLORODIFLUOROACETATES  
1808  
BT ACETATES  
#ALIPHATIC COMPOUNDS  
#ESTERS  
SODIUM CHROMITES  
0603 1804  
BT #SODIUM COMPOUNDS  
#SODIUM COMPOUNDS  
0603 1804 1808  
NT CRYOLITE  
NENBUTAL (TRADEMARK)  
NEPHELINE  
SODIUM AZIDES  
SODIUM BROMIDES  
SODIUM CARBONATES  
SODIUM CHLORIDES  
SODIUM CHROMITES  
SODIUM FLUORIDES  
SODIUM FLUOZIRCONATES

# NASA THESAURUS (ALPHABETICAL LISTING)

SODIUM GALLATES  
SODIUM HYDRIDES  
SODIUM HYDROXIDES  
SODIUM IODIDES  
SODIUM NITRATES  
SODIUM PERFLUOROBUTOXIDE  
SODIUM PERNANGANATES  
SODIUM PEROXIDES  
SODIUM SALICYLATES  
SODIUM SILICATES  
SODIUM SULFITES  
SPODUMENE  
SPURRITE  
TALC  
TOURMALINE  
RT ALKALI METAL COMPOUNDS  
METAL COMPOUNDS  
SODIUM COOLING  
1803 2203  
(COOLING WITH SODIUM)  
BT #COOLING  
RT COOLANTS  
LIQUID COOLED REACTORS  
LIQUID COOLING  
SODIUM D-LINE  
USE D LINES  
SODIUM FLUORIDES  
0603 1804  
BT ALKALI HALIDES  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#SODIUM COMPOUNDS  
SODIUM FLUOZIRCONATES  
0603 1804  
BT #SODIUM COMPOUNDS  
ZIRCONATES  
#ZIRCONIUM COMPOUNDS  
SODIUM GALLATES  
0603 1804  
BT GALLATES  
#GALLIUM COMPOUNDS  
#SODIUM COMPOUNDS  
SODIUM GRAPHITE REACTORS  
2203 2204  
UF SGR (NUCLEAR REACTORS)  
BT LIQUID COOLED REACTORS  
LIQUID METAL COOLED REACTORS  
#NUCLEAR REACTORS  
RT HALLAM NUCLEAR POWER FACILITY  
NUCLEAR POWER REACTORS  
SODIUM REACTOR EXPERIMENT  
SODIUM HYDRIDES  
0603 1804  
BT HYDRIDES  
#HYDROGEN COMPOUNDS  
METAL HYDRIDES  
#SODIUM COMPOUNDS  
SODIUM HYDROXIDES  
0603 1804  
BT ALKALIES  
HYDROXIDES  
#SODIUM COMPOUNDS  
SODIUM IODIDES  
0603 1804  
BT ALKALI HALIDES  
HALIDES  
#HALOGEN COMPOUNDS  
IODIDES  
IODINE COMPOUNDS  
METAL HALIDES  
#SODIUM COMPOUNDS  
SODIUM ISOTOPES  
2406  
NT SODIUM 22  
SODIUM 24  
BT ALKALI METALS  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
SODIUM  
SODIUM NITRATES  
0603 1804  
BT INORGANIC NITRATES  
NITRATES  
#NITROGEN COMPOUNDS  
#SODIUM COMPOUNDS  
SODIUM PERFLUOROBUTOXIDE  
1808  
BT #ALIPHATIC COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

PERFLUORO-COMPOUNDS  
 #SODIUM COMPOUNDS  
 SODIUM PERNANGANATES  
 0603 1804  
 BT #MANGANESE COMPOUNDS  
 PERNANGANATES  
 #SODIUM COMPOUNDS  
 SODIUM PEROXIDES  
 0603 1804  
 BT ANHYDRIDES  
 #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 PEROXIDES  
 #SODIUM COMPOUNDS  
 SODIUM REACTOR EXPERIMENT  
 2202 2204 3404  
 UF SRE REACTOR  
 BT #NUCLEAR REACTORS  
 RT LIQUID COOLED REACTORS  
 LIQUID METAL COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 SODIUM GRAPHITE REACTORS  
 SODIUM SALICYLATES  
 0603 1804  
 BT #ESTERS  
 SALICYLATES  
 #SODIUM COMPOUNDS  
 SODIUM SILICATES  
 0603 1804  
 NT SPODUMENE  
 SPURRITE  
 TALC  
 TOURMALINE  
 BT #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 #SODIUM COMPOUNDS  
 SODIUM SULFITES  
 0603 1804  
 BT #SODIUM COMPOUNDS  
 SULFITES  
 #SULFUR COMPOUNDS  
 SODIUM VAPOR  
 0603 0605  
 BT ALKALI METALS  
 #CHEMICAL ELEMENTS  
 METAL VAPORS  
 SODIUM  
 #VAPORS  
 RT MERCURY VAPOR  
 SODIUM 22  
 0603 1703 2406  
 BT ALKALI METALS  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 SODIUM  
 SODIUM ISOTOPES  
 SODIUM 24  
 0411 0603 1703 2406  
 BT ALKALI METALS  
 #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 SODIUM  
 SODIUM ISOTOPES  
 SOFT LANDING  
 3004 3007 3009  
 (SPACECRAFT OR AIRCRAFT)  
 UF SOFT RECOVERY  
 BT #LANDING  
 AIRCRAFT LANDING  
 ASTRONAUTICS  
 CRASH LANDING  
 GLIDE LANDINGS  
 HORIZONTAL SPACECRAFT LANDING  
 LUNAR LANDING  
 MARS LANDING  
 PLANETARY LANDING  
 #SOFT LANDING SPACECRAFT  
 SPACECRAFT LANDING  
 SURVEYOR PROJECT  
 WATER LANDING  
 #SOFT LANDING SPACECRAFT  
 3104 3109 3110  
 UF SLV (SOFT LANDING VEHICLES)  
 NT AEROSPACEPLANES  
 APOLLO SPACECRAFT

ASTRO VEHICLE  
 ASTROPLANE  
 AURORA 7  
 FAITH 7  
 FREEDOM 7  
 FRIENDSHIP 7  
 GEMINI (GT-1) SPACECRAFT  
 GEMINI B SPACECRAFT  
 GEMINI SPACECRAFT  
 GEMINI 2 SPACECRAFT  
 JANUS SPACECRAFT  
 LANDING MODULES  
 LIBERTY BELL 7  
 LUNAR LANDING MODULES  
 LUNAR MODULE  
 LUNAR MODULE 5  
 LUNAR MODULE 7  
 MARS EXCURSION MODULE  
 MERCURY SPACECRAFT  
 SIGMA 7  
 SURVEYOR 1 LUNAR PROBE  
 SURVEYOR 2 LUNAR PROBE  
 SURVEYOR 3 LUNAR PROBE  
 SURVEYOR 4 LUNAR PROBE  
 SURVEYOR 5 LUNAR PROBE  
 SURVEYOR 6 LUNAR PROBE  
 SURVEYOR LUNAR PROBES  
 VOSKHOD MANNED SPACECRAFT  
 VOSKHOD 1 SPACECRAFT  
 VOSKHOD 2 SPACECRAFT  
 VOSTOK SPACECRAFT  
 VOSTOK 1 SPACECRAFT  
 VOSTOK 2 SPACECRAFT  
 VOSTOK 3 SPACECRAFT  
 VOSTOK 4 SPACECRAFT  
 VOSTOK 5 SPACECRAFT  
 VOSTOK 6 SPACECRAFT  
 RT APOLLO PROJECT  
 FERRY SPACECRAFT  
 HOVERING ROCKET VEHICLES  
 LUNAR PROBES  
 REUSABLE SPACECRAFT  
 SOFT LANDING  
 #SPACE CAPSULES  
 SPACECRAFT  
 SPACECRAFT LANDING  
 SURVEYOR PROJECT  
 SOFT RECOVERY  
 USE SOFT LANDING  
 SOFTENING  
 1202 3303  
 (EXCLUDES WATER SOFTENING)  
 RT ANNEALING  
 DEIONIZATION  
 DEMINERALIZING  
 DIGESTING  
 DISSOLVING  
 #HARDENING (MATERIALS)  
 ION EXCHANGING  
 SOFTNESS  
 3408  
 RT ELASTIC PROPERTIES  
 SOFTWARE (COMPUTERS)  
 USE #COMPUTER PROGRAMS  
 COMPUTER SYSTEMS PROGRAMS  
 SOIL MAPPING  
 1303 1305 1306 1308  
 BT MAPPING  
 RT GEOGRAPHIC APPLICATIONS PROGRAM  
 #MAPS  
 SOIL SCIENCE  
 #SOILS  
 SURVEYS  
 TERRAIN ANALYSIS  
 SOIL MECHANICS  
 1306 1308 1806  
 BT FRACTURE MECHANICS  
 SOIL SCIENCE  
 0403 0404 1306 1806  
 UF PEDOLOGY  
 RT AGRICULTURE  
 CONSERVATION  
 EROSION  
 SOIL MAPPING  
 #SOILS  
 #SOILS  
 0404 3009 1306  
 NT CLAYS  
 DIRT  
 GRAVELS  
 LUNAR DUST  
 LUNAR SOIL

# SOLAR AZIMUTH

MONAZITE SANDS  
 MUD  
 PERMAFROST  
 SANDS  
 RT CARBONACEOUS ROCKS  
 CONSERVATION  
 CULTIVATION  
 EARTH RESOURCES  
 FORMATIONS  
 #GEOLOGY  
 IGNEOUS ROCKS  
 LAND  
 #MINERALS  
 POROUS MATERIALS  
 ROCKS  
 SANDSTONES  
 SEDIMENTARY ROCKS  
 SOIL MAPPING  
 SOIL SCIENCE  
 TUNNELING (EXCAVATION)  
 VADOSE WATER  
 SOL-GEL PROCESSES  
 2202 2203 2405  
 RT CERAMIC NUCLEAR FUELS  
 NUCLEAR FUELS  
 PROCESSES  
 SOLAR ACTIVITY  
 2902 3001  
 NT FACULAE  
 SOLAR FLARES  
 SOLAR PROMINENCES  
 SOLAR STORMS  
 SPICULES  
 SUNSPOTS  
 BT ACTIVITY  
 AURORAS  
 DISTURBANCES  
 INTERNATIONAL QUIET SUN YEAR  
 IRIS SATELLITES  
 MAGNETIC DISTURBANCES  
 PROMINENCES  
 RADIO AURORAS  
 SOLAR ACTIVITY EFFECTS  
 SOLAR ATMOSPHERE  
 SOLAR COSMIC RAYS  
 SOLAR CYCLES  
 SOLAR PHYSICS  
 SOLAR RADIATION  
 SOLAR RADIO BURSTS  
 SOLAR RADIO EMISSION  
 SUN  
 SUNSPOT CYCLE  
 SOLAR ACTIVITY EFFECTS  
 1301 1302 2902  
 RT BLACKOUT (PROPAGATION)  
 EFFECTS  
 MAGNETIC DISTURBANCES  
 SOLAR ACTIVITY  
 SOLAR COSMIC RAYS  
 SOLAR RADIATION  
 SOLAR RADIO BURSTS  
 SOLAR STORMS  
 SOLAR WIND  
 SUDDEN IONOSPHERIC DISTURBANCES  
 SOLAR ATMOSPHERE  
 3001 3009  
 UF SOLAR CHROMOSPHERE  
 BT #ENVIRONMENTS  
 EXTRATERRESTRIAL ENVIRONMENTS  
 STELLAR ATMOSPHERES  
 RT ATMOSPHERES  
 CHROMOSPHERE  
 H REGION  
 PHOTOSPHERE  
 SOLAR ACTIVITY  
 SOLAR CORONA  
 SOLAR RADIATION  
 SOLAR SPECTRA  
 SOLAR STORMS  
 SPICULES  
 STELLAR STRUCTURE  
 SUN  
 SOLAR AUXILIARY POWER UNITS  
 0301 2201 2802 2902  
 NT ASTEC SOLAR TURBOELECTRIC GENERATOR  
 SUNFLOWER POWER SYSTEM  
 SUNFLOWER 1  
 BT #AUXILIARY POWER SOURCES  
 #ELECTRIC GENERATORS  
 SOLAR GENERATORS  
 SOLAR AZIMUTH  
 USE AZIMUTH

## SOLAR CELLS

SOLAR POSITION  
 SOLAR CELLS  
 0301 2201 2902  
 UP SILICON SOLAR CELLS  
 BT DIRECT POWER GENERATORS  
 #ELECTRIC GENERATORS  
 SOLAR GENERATORS  
 RT CELLS  
 ELECTRIC CELLS  
 FUEL CELLS  
 PHOTODIODES  
 PHOTOELECTRIC CELLS  
 PHOTOVOLTAIC CELLS  
 SEMICONDUCTOR DEVICES  
 SOLAR COLLECTORS  
 THERMIONIC CONVERTERS  
 THERMOELECTRIC GENERATORS  
 SOLAR CHROMOSPHERE  
 USE CHROMOSPHERE  
 SOLAR ATMOSPHERE  
 SOLAR COLLECTORS  
 0301 2201 2902  
 NT SOLAR REFLECTORS  
 BT #ACCUMLATORS  
 RT CONCENTRATORS  
 MIRRORS  
 SOLAR CELLS  
 SOLAR ENERGY  
 SOLAR ENERGY ABSORBERS  
 SOLAR FURNACES  
 SUNFLOWER POWER SYSTEM  
 SUNFLOWER 1  
 SOLAR COMPASSES  
 1402 2103 2104 3001  
 BT #AIRCRAFT INSTRUMENTS  
 COMPASSES  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 RT AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 AIRCRAFT SAFETY  
 ALL-WEATHER AIR NAVIGATION  
 APPROACH INDICATORS  
 AUTOMATIC FLIGHT CONTROL  
 AUTOMATIC PILOTS  
 DECCA NAVIGATION  
 #DISPLAY DEVICES  
 DISTANCE MEASURING EQUIPMENT  
 #FLIGHT CONTROL  
 #FLIGHT INSTRUMENTS  
 FLIGHT PATHS  
 HELIOPORTS  
 HOMING DEVICES  
 #LANDING AIDS  
 LORAN  
 POSITION INDICATORS  
 RADIO NAVIGATION  
 SHORAN  
 SOLAR SENSORS  
 TACAN  
 VHF OMNIRANGE NAVIGATION  
 WEATHER  
 SOLAR CONSTANT  
 2902 3009  
 BT #CONSTANTS  
 FLUX DENSITY  
 IRRADIANCE  
 RADIANT FLUX DENSITY  
 #RATES (PER TIME)  
 SOLAR FLUX DENSITY  
 RT FLUX DENSITY  
 ILLUMINANCE  
 IRRADIANCE  
 PARTICLE FLUX DENSITY  
 RADIANT FLUX DENSITY  
 SOLAR FLUX DENSITY  
 SOLAR PHYSICS  
 SOLAR CONVERTERS  
 USE SOLAR GENERATORS  
 SOLAR CORONA  
 0705 2306 2402 2901 2902 2903 3001  
 UP SOLAR NEBULA  
 BT CORONAS  
 RT CHROMOSPHERE  
 ELECTRIC CORONA  
 NEBULAE  
 SOLAR ATMOSPHERE  
 SOLAR RADIATION  
 STELLAR STRUCTURE  
 SOLAR CORPUSCULAR RADIATION  
 2901 2902  
 UP SOLAR STREAMS

NT SOLAR PROTONS  
 BT CORPUSCULAR RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 #PARTICLES  
 SOLAR RADIATION  
 RT M REGION  
 SOLAR COSMIC RAYS  
 SOLAR WIND  
 SUN  
 SOLAR COSMIC RAYS  
 2901 2902  
 BT CORPUSCULAR RADIATION  
 COSMIC RAYS  
 #EXTRATERRESTRIAL RADIATION  
 #IONIZING RADIATION  
 #PARTICLES  
 PRIMARY COSMIC RAYS  
 SOLAR RADIATION  
 RT SOLAR ACTIVITY  
 SOLAR ACTIVITY EFFECTS  
 SOLAR CORPUSCULAR RADIATION  
 SOLAR STORMS  
 SOLAR CYCLES  
 2902 3001  
 NT SUNSPOT CYCLE  
 BT #CYCLES  
 RT INTERNATIONAL QUIET SUN YEAR  
 IRIS SATELLITES  
 SOLAR ACTIVITY  
 SUN  
 SUNSPOTS  
 TWENTY-SEVEN DAY VARIATION  
 SOLAR DISK  
 USE SUN  
 SOLAR ECLIPSES  
 3001 3002  
 BT ECLIPSES  
 LUNAR OCCULTATION  
 RT #OCCULTATION  
 LUNAR SHADOW  
 SOLAR LIMB  
 SOLAR PHYSICS  
 SOLAR ENERGY  
 2306 2902  
 RT ENERGY  
 ENERGY ABSORPTION FILMS  
 IRIS SATELLITES  
 SOLAR COLLECTORS  
 SOLAR GENERATORS  
 SOLAR PROPULSION  
 SOLAR RADIATION  
 SOLAR REFLECTORS  
 SOLAR ENERGY ABSORBERS  
 0301 2902  
 BT ABSORBERS (MATERIALS)  
 RT ELECTROMAGNETIC ABSORPTION  
 SOLAR COLLECTORS  
 SOLAR FACULAE  
 USE FACULAE  
 SOLAR FLARES  
 2901 2902 3009  
 BT SOLAR ACTIVITY  
 RT FLARES  
 FLASH  
 FORBUSH DECREASES  
 IRIS SATELLITES  
 MAGNETIC DISTURBANCES  
 SOLAR PROMINENCES  
 SOLAR STORMS  
 SUNSPOTS  
 SOLAR FLUX  
 2902  
 (ENERGY OR PARTICLES EMITTED FROM THE  
 SUN PER UNIT TIME--DO NOT CONFUSE WITH  
 SOLAR FLUX DENSITY THE ENERGY OR  
 PARTICLE EMISSION OR DETECTION RATE  
 PER UNIT AREA)  
 UP SOLAR HEAT FLOW  
 BT FLUX (RATE)  
 #RATES (PER TIME)  
 RT HEAT FLUX  
 SOLAR FLUX DENSITY  
 SOLAR RADIATION  
 SOLAR FLUX DENSITY  
 2902  
 NT SOLAR CONSTANT  
 BT FLUX DENSITY  
 RADIANT FLUX DENSITY  
 #RATES (PER TIME)  
 RT ELECTRON FLUX DENSITY  
 ILLUMINANCE  
 IRRADIANCE

## NASA THESAURUS (ALPHABETICAL LISTING)

LUMINANCE  
 LUMINOUS INTENSITY  
 PARTICLE FLUX DENSITY  
 PROTON FLUX DENSITY  
 RADIANCE  
 RADIANCY  
 RADIATION PRESSURE  
 SOLAR CONSTANT  
 SOLAR FLUX  
 SOLAR FURNACES  
 2902 3303  
 BT FURNACES  
 #HEATING EQUIPMENT  
 RT FORBUSH DECREASES  
 MELTING  
 SOLAR COLLECTORS  
 SOLAR HEATING  
 VACUUM FURNACES  
 SOLAR GENERATORS  
 0301 2902  
 UP SOLAR CONVERTERS  
 SOLAR POWER GENERATION  
 SOLAR POWER SOURCES  
 NT ASTEC SOLAR TURBOELECTRIC GENERATOR  
 SOLAR AUXILIARY POWER UNITS  
 SOLAR CELLS  
 SUNFLOWER POWER SYSTEM  
 SUNFLOWER 1  
 BT #ELECTRIC GENERATORS  
 RT DIRECT POWER GENERATORS  
 FUEL CELLS  
 PADDLES  
 PHOTOELECTRIC CELLS  
 PHOTOELECTRIC GENERATORS  
 PHOTOVOLTAIC CELLS  
 POWER SUPPLIES  
 RANKINE CYCLE  
 SOLAR ENERGY  
 SOLAR PROPULSION  
 SOLAR REFLECTORS  
 THERMOELECTRIC GENERATORS  
 TURBOGENERATORS  
 SOLAR GRAVITATION  
 1309 3001 3002 3006  
 UP EJECTION  
 BT GRAVITATION  
 RT SUN  
 SOLAR HEAT FLOW  
 USE HEAT FLUX  
 SOLAR FLUX  
 SOLAR HEATING  
 2902 3303  
 BT #HEATING  
 RT INSOLATION  
 RADIANT HEATING  
 SOLAR FURNACES  
 SUNLIGHT  
 SOLAR INSTRUMENTS  
 0301 1410 1412 2201  
 NT SPECTROHELIOGRAPHS  
 RT CELESTROSCOPES  
 OPTICAL MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
 SOLAR OBSERVATORIES  
 SPECTROMETERS  
 #TELESCOPES  
 SOLAR LIMB  
 1308 3001 3002 3008  
 RT LIMBS  
 SOLAR ECLIPSES  
 SOLAR PHYSICS  
 SUN  
 SOLAR LONGITUDE  
 2103 3001  
 BT LONGITUDE  
 RT ASTRONOMICAL COORDINATES  
 CELESTIAL REFERENCE SYSTEMS  
 SOLAR MAGNETIC FIELD  
 2307 3001 3002  
 UP HELIOMAGNETISM  
 BT #MAGNETIC FIELDS  
 STELLAR MAGNETIC FIELDS  
 RT ELECTROMAGNETIC FIELDS  
 INTERPLANETARY MAGNETIC FIELDS  
 SOLAR NEBULA  
 USE SOLAR CORONA  
 SOLAR NOISE  
 USE SOLAR RADIO EMISSION  
 SOLAR OBSERVATORIES  
 3001 3009 3107  
 NT AOSO  
 OSO

# NASA THESAURUS (ALPHABETICAL LISTING)

OSO-B  
OSO-C  
OSO-D  
OSO-E  
OSO-H  
OSO-1  
OSO-2  
OSO-3  
BT #UNMANNED SPACECRAFT  
RT CORONAGRAPHS  
SOLAR INSTRUMENTS  
SOLAR ORBITS  
1901 3001 3002  
UF HELIOCENTRIC ORBITS  
PLANETARY MOTION  
NT APHELIONS  
PERIHELIONS  
BT #ORBITS  
RT CIRCULAR ORBITS  
EARTH MOTION  
ECLIPTIC  
ELLIPTICAL ORBITS  
HEROS SATELLITES  
INTERPLANETARY TRAJECTORIES  
MOTION  
SPACECRAFT ORBITS  
TRANSFER ORBITS  
SOLAR PARALLAX  
1901 3001 3002  
BT PARALLAX  
SOLAR PHYSICS  
2311 3001 3002  
RT INTERNATIONAL QUIET SUN YEAR  
PHOTOSPHERE  
PHYSICS  
#PLASMAS (PHYSICS)  
SOLAR ACTIVITY  
SOLAR CONSTANT  
SOLAR ECLIPSES  
SOLAR LIMB  
SOLAR RADIATION  
SOLAR SPECTRA  
SOLAR WIND  
SOLAR PLASMA (RADIATION)  
USE SOLAR WIND  
SOLAR POSITION  
1901 3001 3002  
UF SOLAR AZIMUTH  
BT POSITION (LOCATION)  
RT CELESTIAL NAVIGATION  
EQUINOXES  
SEASONS  
SOLSTICES  
SUN  
ZENITH  
SOLAR POWER GENERATION  
USE SOLAR GENERATORS  
SOLAR POWER SOURCES  
USE SOLAR GENERATORS  
SOLAR PROBES  
3001 3009 3108 3409  
NT SUNBLAZER SPACE PROBE  
BT SPACE PROBES  
#UNMANNED SPACECRAFT  
RT PIONEER SPACE PROBES  
SOLAR PROMINENCES  
2901 2902 2903 3001  
BT PROMINENCES  
SOLAR ACTIVITY  
RT CHROMOSPHERE  
SOLAR FLARES  
SOLAR STORMS  
SOLAR PROPULSION  
2802 2808 3303  
BT LOW THRUST PROPULSION  
#PROPULSION  
SPACECRAFT PROPULSION  
RT SOLAR ENERGY  
SOLAR GENERATORS  
SOLAR SAILS  
SOLAR PROTONS  
2403 2902  
BT CHARGED PARTICLES  
CORPUSCULAR RADIATION  
ELEMENTARY PARTICLES  
#EXTRATERRESTRIAL RADIATION  
FERMIONS  
#PARTICLES  
PROTONS  
SOLAR CORPUSCULAR RADIATION  
SOLAR RADIATION  
RT SOLAR WIND

SOLAR RADAR ECHOES  
0705 0710 3001  
BT #ECHOES  
RADAR ECHOES  
RT SUN  
SOLAR RADIATION  
2402 2902  
UF SOLAR RADIATION OBSERVATION  
RT SOLAR CORPUSCULAR RADIATION  
SOLAR COSMIC RAYS  
SOLAR PROTONS  
SOLAR RADIO BURSTS  
SOLAR RADIO EMISSION  
SOLAR WIND  
SOLAR X-RAYS  
SUNLIGHT  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
BT #EXTRATERRESTRIAL RADIATION  
RT AEROSPACE ENVIRONMENTS  
ALBEDO  
ATMOSPHERIC REFRACTION  
CLIMATOLOGY  
CLOUD COVER  
CORPUSCULAR RADIATION  
COSMIC NOISE  
COSMIC RAYS  
DAYGLOW  
#ELECTROMAGNETIC RADIATION  
GEGENSCHIEIN  
INFRARED RADIATION  
INSOLATION  
#IONIZING RADIATION  
IRIS SATELLITES  
LIGHT (VISIBLE RADIATION)  
LONG WAVE RADIATION  
LONGITUDINAL WAVES  
RADIATION  
RADIATION BELTS  
RADIATION PRESSURE  
RADIATIVE TRANSFER  
RADIO WAVES  
SKY BRIGHTNESS  
SOLAR ACTIVITY  
SOLAR ACTIVITY EFFECTS  
SOLAR ATMOSPHERE  
SOLAR CORONA  
SOLAR ENERGY  
SOLAR FLUX  
SOLAR PHYSICS  
SOLAR SAILS  
SOLAR SPECTRA  
SOLAR TEMPERATURE  
STELLAR RADIATION  
SUN  
THERMAL RADIATION  
ULTRAVIOLET RADIATION  
ZODIACAL LIGHT  
SOLAR RADIATION OBSERVATION  
USE SOLAR RADIATION  
SOLAR RADIATION 1 SATELLITE  
2902 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT GALACTIC RADIATION  
SOLAR RADIATION 3 SATELLITE  
2902 3107  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
#SATELLITES  
RT GALACTIC RADIATION  
SOLAR RADIATION SHIELDING  
0504 0507 0508 2902 3305  
BT #PROTECTION  
RADIATION PROTECTION  
RADIATION SHIELDING  
#SHIELDING  
RT SATELLITE TEMPERATURE  
SPACECRAFT SHIELDING  
SOLAR RADIO BURSTS  
0705 2402 2902  
NT TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
BT #BURSTS  
#DECAY  
#ELECTROMAGNETIC RADIATION  
EMISSION

## SOLAR SPECTRA

#EXTRATERRESTRIAL RADIATION  
EXTRATERRESTRIAL RADIO WAVES  
RADIO BURSTS  
RADIO EMISSION  
RADIO WAVES  
SOLAR RADIATION  
SOLAR RADIO EMISSION  
RT SOLAR ACTIVITY  
SOLAR ACTIVITY EFFECTS  
SOLAR STORMS  
SOLAR RADIO EMISSION  
0705 2902  
UF SOLAR NOISE  
SOLAR RADIO WAVES  
NT SOLAR RADIO BURSTS  
TYPE 2 BURSTS  
TYPE 3 BURSTS  
TYPE 4 BURSTS  
TYPE 5 BURSTS  
BT #DECAY  
#ELECTROMAGNETIC RADIATION  
EMISSION  
#EXTRATERRESTRIAL RADIATION  
EXTRATERRESTRIAL RADIO WAVES  
RADIO EMISSION  
RADIO WAVES  
SOLAR RADIATION  
RT COSMIC NOISE  
DECIMETER WAVES  
ELECTROMAGNETIC NOISE  
MILLIMETER WAVES  
RADIO BURSTS  
SOLAR ACTIVITY  
SOLAR SPECTRA  
SOLAR RADIO WAVES  
USE SOLAR RADIO EMISSION  
SOLAR REFLECTORS  
1802 2902 3107 3305  
BT #ACCUMULATORS  
#REFLECTORS  
SOLAR COLLECTORS  
RT FOCUSING  
HEAT SHIELDING  
MIRRORS  
PARABOLIC REFLECTORS  
PARABOLOID MIRRORS  
RADIANT FLUX DENSITY  
SOLAR ENERGY  
SOLAR GENERATORS  
SPACECRAFT RADIATORS  
SOLAR ROTATION  
1901 3001 3002  
BT #GYRATION  
ROTATION  
STELLAR ROTATION  
RT SUN  
TWENTY-SEVEN DAY VARIATION  
SOLAR SAILS  
1904 3006 3009 3107  
BT SAILS  
RT #PROPULSION  
SOLAR PROPULSION  
SOLAR RADIATION  
SOLAR WIND  
#SPACE FLIGHT  
SPACECRAFT PROPULSION  
SOLAR SENSORS  
UF SUN SENSORS  
RT #ATTITUDE CONTROL  
GUIDANCE SENSORS  
IRIS SATELLITES  
#NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
SOLAR COMPASSES  
STAR TRACKERS  
#TRACKING (POSITION)  
SOLAR SIMULATION  
1107 1108 3009  
BT #SIMULATION  
RT SOLAR SIMULATORS  
SPACE ENVIRONMENT SIMULATION  
THERMAL SIMULATION  
SOLAR SIMULATORS  
1107 1108 3009  
BT ENVIRONMENT SIMULATORS  
#SIMULATORS  
RT SOLAR SIMULATION  
SPACE SIMULATORS  
#TEST FACILITIES  
SOLAR SPECTRA  
1411 2902  
BT ELECTROMAGNETIC SPECTRA

## SOLAR SPECTROMETERS

RADIATION SPECTRA  
 #SPECTRA  
 STELLAR SPECTRA  
 RT ABSORPTION SPECTRA  
 ASTRONOMICAL SPECTROSCOPY  
 CORONAS  
 D LINES  
 EMISSION SPECTRA  
 FRAUNHOFER LINES  
 H ALPHA LINE  
 H BETA LINE  
 H GAMMA LINE  
 H LINES  
 INFRARED SPECTRA  
 LINE SPECTRA  
 LYMAN SPECTRA  
 MOLECULAR SPECTRA  
 OXYGEN SPECTRA  
 SOLAR ATMOSPHERE  
 SOLAR PHYSICS  
 SOLAR RADIATION  
 SOLAR RADIO EMISSION  
 SOLAR SPECTROMETERS  
 SUN  
 ULTRAVIOLET SPECTRA  
 SOLAR SPECTROMETERS  
 1411 2902  
 BT ACTINOMETERS  
 #MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
 SPECTROMETERS  
 RT ABSORPTION SPECTRA  
 EMISSION SPECTRA  
 INFRARED SPECTROMETERS  
 SOLAR SPECTRA  
 SPECTROHELIOGRAPHS  
 ULTRAVIOLET SPECTROMETERS  
 SOLAR STORMS  
 2902 3001 3301  
 BT SOLAR ACTIVITY  
 #STORMS  
 RT FORBUSH DECREASES  
 IONOSPHERIC STORMS  
 MAGNETIC STORMS  
 NOISE STORMS  
 SOLAR ACTIVITY EFFECTS  
 SOLAR ATMOSPHERE  
 SOLAR COSMIC RAYS  
 SOLAR FLARES  
 SOLAR PROMINENCES  
 SOLAR RADIO BURSTS  
 SOLAR STREAMS  
 USE SOLAR CORPUSCULAR RADIATION  
 SOLAR SYSTEM  
 3001 3002 3003 3008  
 BT #CELESTIAL BODIES  
 RT ASTEROIDS  
 CELESTIAL MECHANICS  
 COMETS  
 EARTH-MOON SYSTEM  
 METEORIODS  
 NATURAL SATELLITES  
 PLANETS  
 SATURN RINGS  
 SUN  
 SYSTEMS  
 VESTA ASTEROID  
 SOLAR TEMPERATURE  
 2902  
 BT #TEMPERATURE  
 RT SOLAR CHROMOSPHERE  
 SOLAR RADIATION  
 SOLAR VELOCITY  
 3001 3002  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT SUN  
 SOLAR WIND  
 2502 2902 3001 3002  
 UP SOLAR PLASMA (RADIATION)  
 BT #EXTRATERRESTRIAL RADIATION  
 SOLAR RADIATION  
 RT COSMIC PLASMA  
 HYDROGEN PLASMA  
 INTERPLANETARY GAS  
 INTERPLANETARY MEDIUM  
 N REGION  
 MAGNETOPAUSE  
 PLASMAPAUSE  
 RADIATION PRESSURE  
 SOLAR ACTIVITY EFFECTS  
 SOLAR CORPUSCULAR RADIATION

SOLAR PHYSICS  
 SOLAR PROTONS  
 SOLAR SAILS  
 STELLAR WINDS  
 SOLAR X-RAYS  
 2309 2402 2902  
 BT #ELECTROMAGNETIC RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 #IONIZING RADIATION  
 SOLAR RADIATION  
 X RAYS  
 RT GREEB 5 SATELLITE  
 SOLDERED JOINTS  
 1507 3202  
 BT #JOINTS (JUNCTIONS)  
 METAL JOINTS  
 RT BUTT JOINTS  
 LAP JOINTS  
 SOLDERING  
 SOLDERING  
 0902 1507 1704 3303  
 NT ULTRASONIC SOLDERING  
 RT #BONDING  
 BRAZING  
 FLUXES  
 JOINING  
 LOW TEMPERATURE BRAZING  
 METAL BONDING  
 METAL-METAL BONDING  
 SEALING  
 SOLDERED JOINTS  
 SOLDERERS  
 #WELDING  
 SOLDERERS  
 1507 1704 1701  
 BT #ALLOYS  
 RT LEAD ALLOYS  
 SEALERS  
 SOLDERING  
 TIN ALLOYS  
 ZINC ALLOYS  
 SOLENOID VALVES  
 0904 1202 2304  
 BT #VALVES  
 RT AUTOMATIC CONTROL VALVES  
 ELECTRIC CONTROL  
 ELECTRIC EQUIPMENT  
 ELECTRIC RELAYS  
 ELECTRIC SWITCHES  
 HYDRAULIC CONTROL  
 OFF-ON CONTROL  
 SOLENOIDS  
 SOLENOIDS  
 0905 2307 2604  
 (EXCLUDES METEOROLOGICAL SOLENOIDS)  
 RT ACTUATORS  
 ELECTRIC RELAYS  
 ELECTROMAGNETS  
 MAGNET COILS  
 SOLENOID VALVES  
 SOLENOID VALVES  
 TOROIDAL PLASMAS  
 SOLID ARGON  
 USE SOLIDIFIED GASES  
 SOLID LUBRICANTS  
 1503  
 (EXCLUDES SEMISOLIDS SUCH AS GREASES)  
 BT LUBRICANTS  
 RT #BINDERS (MATERIALS)  
 GAS LUBRICANTS  
 GRAPHITE  
 SELF LUBRICATING MATERIALS  
 SOLID NITROGEN  
 0603 1807 2603 2809  
 BT #CHEMICAL ELEMENTS  
 NITROGEN  
 RT CRYOGENICS  
 REFRIGERANTS  
 SOLID PHASES  
 2603  
 RT EUTECTICS  
 GAS-METAL INTERACTIONS  
 GAS-SOLID INTERFACES  
 LIQUID PHASES  
 LIQUID-SOLID INTERFACES  
 LIQUIDUS  
 PHASE DIAGRAMS  
 PHASES  
 SOLID SOLUTIONS  
 SOLID STATE  
 SOLID SUSPENSIONS  
 SOLIDIFIED GASES

## NASA THESAURUS (ALPHABETICAL LISTING)

SOLIDUS  
 SOLID PROPELLANT IGNITION  
 2702 2809 3102 3301  
 BT #COMBUSTION  
 IGNITION  
 PROPELLANT COMBUSTION  
 RT HI-LO IGNITERS  
 HYBRID PROPELLANTS  
 HYPERGOLIC ROCKET PROPELLANTS  
 #IGNITERS  
 IGNITION TEMPERATURE  
 INHIBITORS  
 METAL COMBUSTION  
 PYROPHORIC MATERIALS  
 SOLID PROPELLANT ROCKET ENGINES  
 SOLID PROPELLANTS  
 SQUIBS  
 SOLID PROPELLANT ROCKET ENGINES  
 2702 2808 2809  
 BT ALGOL ENGINE  
 ASROC ENGINE  
 EM-36 ROCKET ENGINE  
 HERCULES ENGINE  
 M-46 ENGINE  
 M-55 ENGINE  
 M-56 ENGINE  
 M-57 ENGINE  
 MG-18 ENGINE  
 NIKE BOOSTER ROCKET ENGINES  
 P-1 ENGINE  
 ROCKET ENGINE 1KS-420  
 ROCKET ENGINE 2KS-36250  
 ROCKET ENGINE 15KS-25000  
 SL-3 ROCKET ENGINE  
 SYNCON APOGEE ENGINES  
 TE-289 ENGINE  
 TU-121 ENGINE  
 TU-122 ENGINE  
 TX-77 ENGINE  
 TX-135 ENGINE  
 TX-354 ENGINE  
 X-258-A1 ENGINE  
 X-258-B1 ENGINE  
 X-235 ENGINE  
 X-248 ENGINE  
 X-254 ENGINE  
 X-259 ENGINE  
 X-258 ENGINES  
 XM-33 ENGINE  
 BT #ENGINES  
 ROCKET ENGINES  
 RT ANTARES ROCKET VEHICLE  
 ARCAS ROCKET VEHICLES  
 ARCHER SOUNDING ROCKET  
 ARGO D-4 ROCKET VEHICLE  
 ARGO D-8 ROCKET VEHICLE  
 ARGO E-5 ROCKET VEHICLE  
 ARGO ROCKET VEHICLES  
 ASTROBEE 200 ROCKET VEHICLE  
 ASTROBEE 1500 ROCKET VEHICLE  
 ASTROBEE ROCKET VEHICLES  
 ATHENA ROCKET VEHICLE  
 BE-3 ENGINE  
 BERENICE ROCKET VEHICLE  
 BLACK BRANT 1 SOUNDING ROCKET  
 BLACK BRANT 2 SOUNDING ROCKET  
 BLACK BRANT 3 SOUNDING ROCKET  
 BLACK BRANT 4 SOUNDING ROCKET  
 BLACK BRANT 5 SOUNDING ROCKET  
 BLACK BRANT SOUNDING ROCKETS  
 BLUE GOOSE MISSILE  
 BLUE SCOUT JR ROCKET VEHICLE  
 BLUE SCOUT ROCKET VEHICLE  
 BOMARC A MISSILE  
 BOMARC B MISSILE  
 BOOSTER ROCKET ENGINES  
 BURNING RATE  
 BURNOUT  
 CAJUN ROCKET VEHICLE  
 DEACON-ARROW ROCKET VEHICLE  
 DIAMANT LAUNCH VEHICLE  
 DUCTED ROCKET ENGINES  
 EXOS SOUNDING ROCKET  
 FALCON MISSILE  
 FOLDING FIN AIRCRAFT ROCKET VEHICLE  
 GENIE ROCKET VEHICLE  
 HAWK MISSILE  
 HONEST JOHN ROCKET VEHICLE  
 HYBRID PROPELLANT ROCKET ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JAGUAR ROCKET VEHICLE  
 JASON ROCKET VEHICLE

# NASA THESAURUS (ALPHABETICAL LISTING)

JATO ENGINES  
JAVELIN ROCKET VEHICLE  
JOURNETHAN ROCKET VEHICLE  
JUNO 1 LAUNCH VEHICLE  
JUNO 2 LAUNCH VEHICLE  
JUNO LAUNCH VEHICLES  
JUPITER C ROCKET VEHICLE  
KAPPA 6 ROCKET VEHICLE  
KAPPA 8 ROCKET VEHICLE  
KAPPA 9 ROCKET VEHICLE  
KAPPA ROCKET VEHICLES  
LACROSSE MISSILE  
LAMBDA ROCKET VEHICLES  
LIQUID PROPELLANT ROCKET ENGINES  
LITTLE JOE 2 LAUNCH VEHICLE  
LITTLE JOHN ROCKET VEHICLE  
LOKI ROCKET VEHICLE  
MACE MISSILES  
MATRA MISSILE  
MAULER MISSILE  
METEOR 1 ROCKET VEHICLE  
MINUTEMAN ICBM  
NIKE-AJAX MISSILE  
NIKE-APACHE ROCKET VEHICLE  
NIKE-ASP ROCKET VEHICLE  
NIKE-CAJON ROCKET VEHICLE  
NIKE-HERCULES MISSILE  
NIKE-JAVELIN ROCKET VEHICLE  
NIKE-TOMAHAWK ROCKET VEHICLE  
NIKE-ZEUS MISSILE  
OPD-220 ROCKET VEHICLE  
PERSHING MISSILE  
PHOENIX SOUNDING ROCKET  
POLARIS MISSILES  
RAM B LAUNCH VEHICLE  
REDEYE MISSILE  
REGULUS MISSILE  
RESTARTABLE ROCKET ENGINES  
RETROCKET ENGINES  
RUBIS ROCKET VEHICLE  
SCOUT LAUNCH VEHICLE  
SEACAT MISSILE  
SEASLUG MISSILE  
SERGEANT MISSILES  
SHOTPUT SOUNDING ROCKETS  
SHRIKE MISSILE  
SKUA ROCKET VEHICLES  
SKYBOLT MISSILE  
SKYDART 2 ROCKET VEHICLE  
SKYLARK ROCKET VEHICLE  
SOLID PROPELLANT IGNITION  
SOLID ROCKET PROPELLANTS  
SPARROW 2 MISSILE  
SPARROW MISSILES  
SPRINT MISSILE  
SS-11 MISSILE  
STANDARD LAUNCH VEHICLE 1B  
STRONGARM ROCKET VEHICLE  
SUNBLAZER SPACE PROBE  
SUSTAINER ROCKET ENGINES  
TALOS MISSILE  
TABTAR MISSILE  
TERRIER MISSILE  
THOR ABLE ROCKET VEHICLE  
THOR DELTA LAUNCH VEHICLE  
THOR LAUNCH VEHICLES  
THUNDERBIRD MISSILE  
TITAN LAUNCH VEHICLES  
TRAILBLAZER 1 REENTRY VEHICLE  
TRAILBLAZER 2 REENTRY VEHICLE  
ULLAGE ROCKET ENGINES  
VANGUARD 2 LAUNCH VEHICLE  
VERNIER ENGINES  
WASP SOUNDING ROCKET  
X-17 REENTRY VEHICLE  
ZUNI ROCKET VEHICLE  
**SOLID PROPELLANTS**  
2702 2809  
BT CASE BONDED PROPELLANTS  
COMPOSITE PROPELLANTS  
DOUBLE BASE ROCKET PROPELLANTS  
METAL PROPELLANTS  
PLASTIC PROPELLANTS  
SOLID ROCKET PROPELLANTS  
BT #PROPELLANTS  
BT AIRCRAFT FUELS  
CHEMICAL FUELS  
COLLOIDAL PROPELLANTS  
GELLED PROPELLANTS  
HIGH TEMPERATURE PROPELLANTS  
HYBRID PROPELLANTS  
INHIBITORS

METAL FUELS  
NITROGUANIDINE  
PLASTICIZERS  
PROPELLANT BINDERS  
PROPELLANT GRAINS  
RDX  
ROCKET PROPELLANTS  
SOLID PROPELLANT IGNITION  
STORABLE PROPELLANTS  
**SOLID ROCKET BINDERS**  
1808 2702 2804 2809  
BT #ADDITIVES  
#BINDERS (MATERIALS)  
PROPELLANT ADDITIVES  
PROPELLANT BINDERS  
BT PLASTICIZERS  
SOLID ROCKET PROPELLANTS  
**SOLID ROCKET PROPELLANTS**  
2702 2809  
NT DOUBLE BASE ROCKET PROPELLANTS  
METAL PROPELLANTS  
BT #FUELS  
#PROPELLANTS  
ROCKET PROPELLANTS  
SOLID PROPELLANTS  
BT AMMONIUM PERCHLORATES  
BURNING RATE  
CASE BONDED PROPELLANTS  
COMPOSITE PROPELLANTS  
DOMINO PROPELLANTS  
GELLED ROCKET PROPELLANTS  
HYBRID PROPELLANTS  
LIQUID ROCKET PROPELLANTS  
MONOPROPELLANTS  
POTASSIUM PERCHLORATES  
PROPELLANT GRAINS  
RDX  
ROCKET ENGINES  
SLURRY PROPELLANTS  
SOLID PROPELLANT ROCKET ENGINES  
SOLID ROCKET BINDERS  
**SOLID ROTATION**  
USE #ROTATING BODIES  
**SOLID-SOLID INTERFACES**  
0602 1203  
BT #INTERFACES  
RT GAS-SOLID INTERFACES  
LIQUID-SOLID INTERFACES  
#SURFACE PROPERTIES  
**SOLID SOLUTIONS**  
0603 2603  
BT #MIXTURES  
SOLUTIONS  
RT AGING (METALLURGY)  
#ALLOYS  
LIQUID PHASES  
LIQUIDUS  
MELTING POINTS  
ORDER-DISORDER TRANSFORMATIONS  
PHASE DIAGRAMS  
PRECIPITATION HARDENING  
SOLID PHASES  
SOLID STATE  
SOLID SUSPENSIONS  
SOLIDS  
SUPERSATURATION  
TERNARY SYSTEMS  
**SOLID STATE**  
0603 2603  
RT CRYSTALLIZATION  
MELTING POINTS  
SOLID PHASES  
SOLID SOLUTIONS  
SOLIDS  
**SOLID STATE DEVICES**  
0906 1601 2603  
NT AVALANCHE DIODES  
CRYOSAR  
CRYOTRONS  
CRYSTAL RECTIFIERS  
FIELD EFFECT TRANSISTORS  
GALLIUM ARSENIDE LASERS  
GERMANIUM DIODES  
JUNCTION DIODES  
JUNCTION TRANSISTORS  
METAL OXIDE SEMICONDUCTORS  
MIS (SEMICONDUCTORS)  
NEURISTORS  
PARAMETRIC DIODES  
PHOTODIODES  
PHOTOTRANSISTORS  
PHOTOVOLTAIC CELLS

## SOLIDIFIED GASES

RUBY LASERS  
SEMICONDUCTOR DEVICES  
SEMICONDUCTOR LASERS  
SILICON TRANSISTORS  
SOLID STATE LASERS  
THERMISTORS  
THYRISTORS  
TRANSISTOR AMPLIFIERS  
TRANSISTORS  
VARACTOR DIODES  
VARISTORS  
BT #ELECTRONIC EQUIPMENT  
RT #AMPLIFIERS  
CAPACITORS  
#CIRCUITS  
DEVICES  
ELECTRIC BRIDGES  
LASERS  
MINIATURE ELECTRONIC EQUIPMENT  
#OSCILLATORS  
#RECTIFIERS  
RESISTORS  
SIGNAL GENERATORS  
SUPERCONDUCTORS  
THIN FILMS  
TRANSFORMERS  
WAPERS  
**SOLID STATE LASERS**  
0906 1601 2603  
NT RUBY LASERS  
BT #ELECTRONIC EQUIPMENT  
LASERS  
SOLID STATE DEVICES  
#STIMULATED EMISSION DEVICES  
RT INFRARED LASERS  
Q SWITCHED LASERS  
SEMICONDUCTOR LASERS  
**SOLID STATE PHYSICS**  
2311 2603  
[USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW  
RT CRYSTALLOGRAPHY  
#ELECTRICAL PROPERTIES  
ELECTRON MOBILITY  
FORBIDDEN TRANSITIONS  
HOLE MOBILITY  
#MAGNETIC PROPERTIES  
OPTICAL PROPERTIES  
SEMICONDUCTORS (MATERIALS)  
SUPERCONDUCTIVITY  
#THEORETICAL PHYSICS  
THIN FILMS  
#TRANSPORT PROPERTIES  
**SOLID SURFACES**  
0603 2601 2603 3203  
NT CRYSTAL SURFACES  
RT LIQUID SURFACES  
METAL SURFACES  
SURFACE CRACKS  
SURFACE FINISHING  
#SURFACE PROPERTIES  
SURFACES  
**SOLID SUSPENSIONS**  
0603 2603  
BT #MIXTURES  
RT COLLOIDAL PROPELLANTS  
#COMPOSITE MATERIALS  
METALLOGRAPHY  
PHASE DIAGRAMS  
SOLID PHASES  
SOLID SOLUTIONS  
**SOLIDIFICATION**  
0602 0603 3303  
RT CASTING  
CASTINGS  
COAGULATION  
CRYSTALLIZATION  
FREEZING  
GELATION  
INGOTS  
MELTING POINTS  
OCCLUSION  
#PHASE TRANSFORMATIONS  
SETTING  
SOLIDIFIED GASES  
TRANSITION TEMPERATURE  
**SOLIDIFIED GASES**  
0603 1203 1807 2311  
OF SOLID ARGON  
BT CRYOGENIC FLUIDS  
#GASES



# SOLIDS

RT SOLIDS  
CRYOGENICS  
FREEZING  
LOW TEMPERATURE PHYSICS  
MELTING POINTS  
SOLID PHASES  
SOLIDIFICATION

SOLIDS  
0603 2603  
NT SOLIDIFIED GASES  
RT BODIES  
FLUIDS  
MATERIALS  
#PHASE TRANSFORMATIONS  
SOLID SOLUTIONS  
SOLID STATE  
SOLIDS FLOW  
THERMOCHROMATIC MATERIALS  
VAPOR PHASES

SOLIDS FLOW  
1203  
RT FLOW  
FLOW MEASUREMENT  
FLOW THEORY  
#FLUID FLOW  
MASS FLOW  
MULTIPHASE FLOW  
PARTICLE SIZE DISTRIBUTION  
SOLIDS  
STEADY FLOW  
TWO PHASE FLOW  
UNIFORM FLOW  
UNSTEADY FLOW

SOLIDUS  
1701 3304  
RT BINARY SYSTEMS  
LIQUID PHASES  
LIQUIDS  
SOLID PHASES

SOLUTIONS  
0604 0902 1406 2301  
RT #CIRCUITS  
#DIODES  
INTEGRATORS  
ION CURRENTS

SOLITHANES  
1808 1809 1810  
RT ELASTOMERS  
POLYMERS  
SYNTHETIC RUBBERS

SOLOMON COMPUTERS  
0801 0802  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS

SOLSTICES  
1904 2001 3001 3002  
RT EQUINOXES  
SEASONS  
SOLAR POSITION  
SUMMER  
WINTER

SOLUBILITY  
0601 0603  
UP IMMISCIBILITY  
MISCIBILITY  
RT CLARITY  
CONCENTRATION (COMPOSITION)  
DIFFUSIVITY  
DISSOLVING  
GAS-SOLID INTERFACES  
HENRY LAW  
HYGROSCOPICITY  
INCOMPATIBILITY  
LIQUID-GAS MIXTURES  
LIQUID-LIQUID INTERFACES  
LIQUID PHASES  
LIQUID-VAPOR INTERFACES  
#MIXTURES  
PHASE DIAGRAMS  
PRECIPITATION (CHEMISTRY)  
SOLUTIONS  
#THERMODYNAMIC PROPERTIES  
THIXOTROPY  
TURBIDITY  
VISCOSITY

SOLUTES  
0603  
RT DISSOLVING  
SOLUTIONS

SOLUTION  
3407

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT DISSOLVING  
PROBLEM SOLVING  
SOLUTIONS

SOLUTIONS  
0602  
NT AQUEOUS SOLUTIONS  
DETONABLE GAS MIXTURES  
GAS MIXTURES  
NUCLEAR EMULSIONS  
PHOTOGRAPHIC EMULSIONS  
SOLID SOLUTIONS  
BT #MIXTURES  
RT #AZEOTROPES  
#COMPOSITION (PROPERTY)  
EMULSIONS  
EUTECTICS  
HENRY LAW  
RAOULT LAW  
SOLUBILITY  
SOLUTES  
SOLUTION  
SOLVENTS  
TITRATION

SOLVENT EXTRACTION  
0602 0603  
BT EXTRACTION  
RT ION EXTRACTION  
PURIFICATION  
SEPARATION

SOLVENTS  
0603  
UP THINNERS  
NT TURPENTINE  
RT #ADDITIVES  
#COATINGS  
DILUENTS  
DISSOLVING  
EXTRACTION  
SOLUTIONS  
TRIACETIN

SONNERFELD APPROXIMATION  
0705 0710 0901  
BT APPROXIMATION  
NUMERICAL ANALYSIS  
RT ANTENNA RADIATION PATTERNS  
DIRECTIONAL ANTENNAS  
ELECTROMAGNETIC FIELDS  
RADIO TRANSMISSION

SONNERFELD WAVES  
0705 0710 0901  
BT #ELECTROMAGNETIC RADIATION  
#SURFACE WAVES  
RT DIELECTRIC PROPERTIES  
ELECTRIC CONDUCTORS

SONAR  
1310 2104 2301 3401  
NT SONOBUOYS  
RT DISTANCE MEASURING EQUIPMENT  
ECHO SUPPRESSORS  
HYDROPHONES  
LOPAR  
#NAVIGATION AIDS  
SOUND LOCALIZATION  
SOUND RANGING  
ULTRASONIC WAVE TRANSDUCERS  
UNDERWATER ACOUSTICS  
UNDERWATER COMMUNICATION

SONDES  
0705 0710 2003  
UP #METEOROLOGICAL PROBES  
NT DROPSONDES  
ENDORADIOSONDES  
IONOSONDES  
JUDI-DART ROCKET  
PETREL SOUNDING ROCKET  
RADIOSONDES  
RAWINSONDES  
BT #MEASURING INSTRUMENTS  
RT APACHE ROCKET VEHICLE  
ASP ROCKET VEHICLE  
CAJUN ROCKET VEHICLE  
PROBES  
SOUNDING  
SOUNDING ROCKETS

SONIC ANEMOMETERS  
1203 1406 2104  
BT #AIRCRAFT INSTRUMENTS  
ANEMOMETERS  
#DISPLAY DEVICES

# NASA THESAURUS (ALPHABETICAL LISTING)

INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
SPEED INDICATORS  
RT ACOUSTICS  
FLOWMETERS  
HOT-FILM ANEMOMETERS

SONIC BOOMS  
0204 1203 2301  
BT AIRCRAFT NOISE  
#ELASTIC WAVES  
NOISE (SOUND)  
SHOCK WAVES  
SOUND WAVES  
RT ACOUSTIC VELOCITY  
AERODYNAMIC NOISE  
BOOM  
JET AIRCRAFT NOISE  
SUPERSONIC FLIGHT  
TRANSONIC FLIGHT

SONIC FLOW  
USE TRANSONIC FLOW

SONIC NOZZLES  
2806 2808  
RT ACOUSTIC NOZZLES  
CONICAL NOZZLES  
NOZZLES  
SUPERSONIC NOZZLES  
TRANSONIC FLOW  
TRANSONIC NOZZLES

SONIC SOLDERING  
USE ULTRASONIC SOLDERING

SONIC SPEED  
USE ACOUSTIC VELOCITY

SONIC WAVEGUIDES  
USE ACOUSTIC DELAY LINES

SONOBUOYS  
0702 0710 2301  
BT #RADIO EQUIPMENT  
RADIO TRANSMITTERS  
SONAR  
#TRANSMITTERS  
RT ANTISUBMARINE WARFARE  
HYDROPHONES  
UNDERWATER ACOUSTICS  
UNDERWATER COMMUNICATION

SONOGRAMS  
0710 2301  
RT #RECORDING INSTRUMENTS  
SOUND WAVES  
WHISTLER RECORDERS  
WHISTLERS

SONOLUMINESCENCE  
0704 2301  
BT #DECAY  
EMISSION  
LIGHT EMISSION  
LUMINESCENCE

SOOT  
0603 3301  
BT #PARTICLES  
RT AIR POLLUTION  
CARBON  
COMBUSTION PRODUCTS  
SMOKE  
SMOKE ABATEMENT

SORBATES  
0603 1203  
RT SORBENTS  
#SORPTION

SORBENTS  
0603 1203  
NT ABSORBENTS  
ADSORBENTS  
RT SORBATES  
#SORPTION  
SORET COEFFICIENT  
1203 3303 3304  
BT #COEFFICIENTS  
DIFFUSION COEFFICIENT  
RT LIQUID FLOW  
THERMAL DIFFUSION

#SORPTION  
0602 0603 1203  
UP CRYSORPTION  
NT ADSORPTION  
CHEMISORPTION  
RT ABSORPTION  
CHROMATOGRAPHY  
CONCENTRATING  
EXTRACTION  
GAS CHROMATOGRAPHY  
MATERIAL ABSORPTION

# NASA THESAURUS (ALPHABETICAL LISTING)

PERHEATING  
SEPARATION  
SORBATES  
SORBENTS  
#SURFACE PROPERTIES  
SORTING  
USE CLASSIFYING  
SOUND  
USE ACOUSTICS  
SOUND ABSORPTION  
USE SOUND TRANSMISSION  
SOUND AMPLIFICATION  
0702 0710 1002 2301  
BT AMPLIFICATION  
RT ACOUSTIC ATTENUATION  
ACOUSTIC EXCITATION  
ACOUSTICS  
SOUND INTENSITY  
SOUND TRANSDUCERS  
SOUND WAVES  
SOUND BARRIER  
USE ACOUSTIC VELOCITY  
SOUND DETECTORS  
USE SOUND TRANSDUCERS  
SOUND FIELDS  
0710 2301  
RT ACOUSTICS  
FIELD THEORY (PHYSICS)  
MICROSONICS  
SOUND PRESSURE  
SOUND WAVES  
SOUND GENERATORS  
2301  
UP ACOUSTIC GENERATORS  
RT ACOUSTIC NOZZLES  
AUDIO FREQUENCIES  
AUDITORY STIMULI  
BELLS  
GENERATORS  
HORNS  
LOUDSPEAKERS  
RADIATION SOURCES  
SIGNAL GENERATORS  
SIGNALS  
SIRENS  
SOUND PROPAGATION  
#WARNING SYSTEMS  
SOUND INTENSITY  
0710 2301  
NT ZERO SOUND  
BT #ACOUSTIC PROPERTIES  
FLUX DENSITY  
#RATES (PER TIME)  
RT AUDITORY STIMULI  
BIOACOUSTICS  
LOUDNESS  
NOISE INTENSITY  
RADIANT FLUX DENSITY  
SIGNAL FADING  
SIGNAL FADING RATE  
SIRENS  
SOUND AMPLIFICATION  
SOUND PRESSURE  
SOUND WAVES  
SOUND LOCALIZATION  
0710 2301  
RT AUDITORY PERCEPTION  
BEARING (DIRECTION)  
BINAURAL HEARING  
#DETECTION  
ORIENTATION  
POSITION INDICATORS  
RANGE FINDERS  
SONAR  
SPACE PERCEPTION  
#TRACKING (POSITION)  
SOUND MEASUREMENT  
USE ACOUSTIC MEASUREMENTS  
SOUND PERCEPTION  
USE AUDITORY PERCEPTION  
SOUND PRESSURE  
2301  
BT #PRESSURE  
RADIATION PRESSURE  
RT ACOUSTIC MEASUREMENTS  
ACOUSTIC VELOCITY  
#EXPLOSIONS  
FLUX DENSITY  
LOUDNESS  
NOISE (SOUND)  
SHOCK WAVES  
SOUND FIELDS

SOUND INTENSITY  
SOUND WAVES  
STATIC PRESSURE  
SOUND PROPAGATION  
0710 2301  
NT VOICE  
RT ACOUSTIC PROPAGATION  
ACOUSTICS  
#ATTENUATION  
CONDUCTION  
#DIFFUSION  
NOISE PROPAGATION  
SHOCK WAVE PROPAGATION  
SOUND GENERATORS  
SOUND TRANSMISSION  
SOUND RANGING  
0710 2301  
BT RANGEFINDING  
RT #DETECTION  
DISTANCE MEASURING EQUIPMENT  
POSITION (LOCATION)  
SONAR  
TARGET ACQUISITION  
#TRACKING (POSITION)  
SOUND-SOUND INTERACTIONS  
1202 2301 2312  
RT HARMONICS  
INTERACTIONS  
INTERMODULATION  
SOUND WAVES  
WAVE DISPERSION  
SOUND TRANSDUCERS  
2301  
UP SOUND DETECTORS  
NT ELECTROACOUSTIC TRANSDUCERS  
HYDROPHONES  
LOUDSPEAKERS  
MICROPHONES  
BT #TRANSDUCERS  
RT RADIATORS  
SIGNAL DETECTION  
SIGNAL DETECTORS  
SOUND AMPLIFICATION  
UNDERWATER ACOUSTICS  
UNDERWATER COMMUNICATION  
SOUND TRANSMISSION  
0705 0710 2301  
UP SOUND ABSORPTION  
BT #TRANSMISSION  
ACOUSTICS  
#ATTENUATION  
AUDIO FREQUENCIES  
CONDUCTION  
EAPRHOES  
#ELASTIC WAVES  
#ENERGY ABSORPTION  
MONAURAL SIGNALS  
MULTIPATH TRANSMISSION  
PATHS  
#SIGNAL TRANSMISSION  
SIRENS  
SOUND PROPAGATION  
THERMOCLINES  
WAVE PROPAGATION  
SOUND VELOCITY  
USE ACOUSTIC VELOCITY  
SOUND WAVES  
0710 2301  
(ELASTIC WAVES IN THE AUDIBLE RANGE)  
UP ACOUSTIC RADIATION  
ACOUSTIC VIBRATIONS  
COHERENT SOUND  
NT AERODYNAMIC NOISE  
AIRCRAFT NOISE  
ENGINE NOISE  
JET AIRCRAFT NOISE  
LAMB WAVES  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
NOISE (SOUND)  
ROCKET ENGINE NOISE  
SONIC BOOMS  
THERMAL NOISE  
BT #ELASTIC WAVES  
RT ACOUSTIC MEASUREMENTS  
#ACOUSTIC PROPERTIES  
ACOUSTIC STREAMING  
ACOUSTICS  
AEOLIAN TONES  
AUDIO FREQUENCIES  
AUDITORY PERCEPTION  
BLASTS  
DEEP SCATTERING LAYERS

## SOUNDING ROCKETS

DETONATION WAVES  
#DIFFUSION  
LONGITUDINAL WAVES  
LOUDNESS  
MACH CONES  
MAGNETOELASTIC WAVES  
MICROSONICS  
PHONONS  
PLANE WAVES  
POLARIZED ELASTIC WAVES  
REVERBERATION  
SHOCK WAVES  
SONOGRAMS  
SOUND AMPLIFICATION  
SOUND FIELDS  
SOUND INTENSITY  
SOUND PRESSURE  
SOUND-SOUND INTERACTIONS  
ULTRASONIC RADIATION  
WAVES  
SOUNDERS  
USE SOUNDING  
SOUNDING  
1308 2003 3407  
UP SOUNDERS  
NT BALLOON SOUNDING  
IONOSPHERIC SOUNDING  
ROCKET SOUNDING  
BATHYMETERS  
DEPTH MEASUREMENT  
MEASUREMENT  
METEOROLOGICAL BALLOONS  
METEOROLOGICAL FLIGHT  
ROBIN BALLOONS  
SONDES  
SOUNDING ROCKETS  
3009 3108 3409  
UP METEOROLOGICAL ROCKETS  
ROCKET SONDES  
NT AEROSOL ROCKET VEHICLE  
ANTARES ROCKET VEHICLE  
APACHE ROCKET VEHICLE  
ARCAS ROCKET VEHICLES  
ARCHER SOUNDING ROCKET  
ASP ROCKET VEHICLE  
ASTROBEE 200 ROCKET VEHICLE  
ASTROBEE 1500 ROCKET VEHICLE  
ASTROBEE ROCKET VEHICLES  
BLACK BRANT 1 SOUNDING ROCKET  
BLACK BRANT 2 SOUNDING ROCKET  
BLACK BRANT 3 SOUNDING ROCKET  
BLACK BRANT 4 SOUNDING ROCKET  
BLACK BRANT 5 SOUNDING ROCKET  
BLACK BRANT SOUNDING ROCKETS  
CAJUN ROCKET VEHICLE  
DEACON-ARROW ROCKET VEHICLE  
DORNIER PARAGLIDER ROCKET VEHICLE  
EXOS SOUNDING ROCKET  
JAGUAR ROCKET VEHICLE  
JASON ROCKET VEHICLE  
JOURNEYMAN ROCKET VEHICLE  
JUDI-DART ROCKET  
KAPPA 6 ROCKET VEHICLE  
KAPPA 8 ROCKET VEHICLE  
KAPPA 9 ROCKET VEHICLE  
KAPPA ROCKET VEHICLES  
LAMBDA ROCKET VEHICLES  
LOKI ROCKET VEHICLE  
OPD-220 ROCKET VEHICLE  
PETREL SOUNDING ROCKET  
PHOENIX SOUNDING ROCKET  
SHOTPUT SOUNDING ROCKETS  
SKUA ROCKET VEHICLES  
SKYLARK ROCKET VEHICLE  
VENUS FLY TRAP ROCKET VEHICLE  
VERONIQUE ROCKET VEHICLES  
VERONIQUE V-27 ROCKET VEHICLE  
VERONIQUE V-37 ROCKET VEHICLE  
WASP SOUNDING ROCKET  
BT #ROCKET VEHICLES  
RT ARGO D-4 ROCKET VEHICLE  
IONOSONDES  
JAVELIN ROCKET VEHICLE  
METEOROLOGICAL INSTRUMENTS  
METEOROLOGICAL SATELLITES  
NIKE-ASP ROCKET VEHICLE  
NIKE-JAVELIN ROCKET VEHICLE  
RADIOSONDES  
ROCKET SOUNDING  
SONDES  
VIKING ROCKET VEHICLE

# SOURCE PROGRAMS

## SOURCE PROGRAMS

0802

RT #COMPUTER PROGRAMS  
#PROGRAMS

## SOURCES

0303 2201

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CAUSES  
DERIVATION  
ELECTRON SOURCES  
#ION SOURCES  
RADIATION SOURCES  
RADIO SOURCES (ASTRONOMY)  
SINKS

## SOUTH AFRICA

3403

RT NATIONS

## SOUTH AMERICA

1305

BT #CONTINENTS

RT ARGENTINA

BOLIVIA

BRAZIL

CHILE

COLOMBIA

ECUADOR

FRENCH GUIANA

PERU

VENEZUELA

## SOUTH CAROLINA

1305

BT UNITED STATES OF AMERICA

## SOUTH DAKOTA

1305

BT UNITED STATES OF AMERICA

## SOUTHEAST ASIA

1305

RT ASIA

## #SOUTHERN HEMISPHERE

1305

NT ANTARCTIC REGIONS

MCNURDO SOUND

ROSS ICE SHELF

RT HEMISPHERES

NORTHERN HEMISPHERE

## SOVEREIGNTY

3402 3403

RT INTERNATIONAL COOPERATION

INTERNATIONAL LAW

POLITICS

VOTING

## SOYBEANS

0409 0505

RT FOOD

## SOYUZ SPACECRAFT

3104

BT #MANNED SPACECRAFT

RT U.S.S.R. SPACE PROGRAM

## SPACE

3009 3409

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #ALGEBRA

#ANALYSIS (MATHEMATICS)

CARTAN SPACE

CISLUNAR SPACE

DEEP SPACE

FUNCTION SPACE

HYPERSPACES

SET THEORY

## SPACE BASE COMMAND CENTER

2102 3104 3110

BT SPACE STATIONS

## SPACE BASES

3109

RT BASES

ORBITAL SPACE STATIONS

SPACE LOGISTICS

SPACE STATIONS

SPACE TRANSPORTATION

#STATIONS

## SPACE BIOLOGY

USE EXOBIOLOGY

## SPACE BUSES

USE FERRY SPACECRAFT

## #SPACE CAPSULES

0504 0507 3009 3104 3107 3110

UP CAPSULES (SPACECRAFT)

NT AURORA 7

## DISCOVERER RECOVERY CAPSULES

ESCAPE CAPSULES

FAITH 7

FREEDOM 7

FRIENDSHIP 7

LIBERTY BELL 7

MERCURY SPACECRAFT

SIGMA 7

RT ARTIFICIAL SATELLITES

BIO SATELLITES

CABIN ATMOSPHERES

CAPSULES

COCKPITS

GEMINI SPACECRAFT

#INTERPLANETARY SPACECRAFT

LANDING MODULES

#LUNAR SPACECRAFT

#MANNED SPACECRAFT

MERCURY FLIGHTS

RECOVERABLE SPACECRAFT

#REENTRY VEHICLES

RENDEZVOUS SPACECRAFT

#SATELLITES

#SOFT LANDING SPACECRAFT

SPACECRAFT

SPACECRAFT CABINS

SPACECRAFT MODULES

#UNMANNED SPACECRAFT

VOSKHOV MANNED SPACECRAFT

VOSTOK SPACECRAFT

## SPACE CHARGE

1203 2302 2304 3009

BT #ELECTRIC CHARGE

RT BUNCHING

CHILD-LANGMUIR LAW

ELECTRIC DISCHARGES

ELECTRON CLOUDS

LANDAU DAMPING

MAGNETOHYDRODYNAMICS

MONOHMIC EFFECT

ORBITRONS

PERVEANCE

#PLASMAS (PHYSICS)

STATIC ELECTRICITY

## SPACE COMMUNICATION

0702 0707 3009

NT INTERPLANETARY COMMUNICATION

LUNAR COMMUNICATION

REENTRY COMMUNICATION

SPACECRAFT COMMUNICATION

BT #TELECOMMUNICATION

RT COMMUNICATION SATELLITES

DEFENSE COMMUNICATIONS SATELLITE

SYSTEM

FURABLE ANTENNAS

INTERSTELLAR COMMUNICATION

LASERS

MANNED SPACE FLIGHT

OPTICAL COMMUNICATION

PULSE COMMUNICATION

RADIO COMMUNICATION

RADIO TELEMETRY

SPACE FLIGHT TRAINING

TELEVISION SYSTEMS

WIRELESS COMMUNICATIONS

## SPACE DEBRIS

0504 3009 3110 3404

BT DEBRIS

RT ASTEROIDS

COSMIC DUST

#DUST

METEORIODS

MICROMETEORIODS

SPACECRAFT

SPACECRAFT DESIGN

VESTA ASTEROID

## SPACE DENSITY

1203 1302 1408 3009

BT DENSITY (MASS/VOLUME)

#DENSITY (NUMBER/VOLUME)

RT ATMOSPHERIC DENSITY

ELECTRON DENSITY (CONCENTRATION)

ION DENSITY (CONCENTRATION)

PARTICLE DENSITY (CONCENTRATION)

PLASMA DENSITY

PHOTON DENSITY (CONCENTRATION)

## SPACE DETECTION AND TRACKING SYSTEM

0708 0709 1109 3009

UP SPADATS (TRACKING SYSTEM)

BT GROUND STATIONS

#STATIONS

#TRACKING (POSITION)

# NASA THESAURUS (ALPHABETICAL LISTING)

## TRACKING NETWORKS

TRACKING STATIONS

RT MINITRACK SYSTEM

MISSILE TRACKING

OPTICAL TRACKING

PHOTOGRAPHIC TRACKING

POLYSTATION DOPPLER TRACKING SYSTEM

SPACECRAFT TRACKING

STADAN (SATELLITE TRACKING NETWORK)

SYSTEMS

SPACE ELECTRIC ROCKET TESTS

2803 3106 3409

UP SERT (ROCKET TESTS)

BT ENGINE TESTS

RT ELECTRIC ROCKET ENGINES

FLIGHT TESTS

#GROUND TESTS

SERT 1 SPACECRAFT

SERT 2 SPACECRAFT

## SPACE ENVIRONMENT

USE AEROSPACE ENVIRONMENTS

## SPACE ENVIRONMENT SIMULATION

0502 1107 3009

NT WEIGHTLESSNESS SIMULATION

BT ENVIRONMENT SIMULATION

#SIMULATION

RT ALTITUDE SIMULATION

ATMOSPHERIC ENTRY SIMULATION

FLIGHT SIMULATION

FLIGHT SIMULATORS

HIGH VACUUM ORBITAL SIMULATOR

SOLAR SIMULATION

SPACE SIMULATORS

THERMAL SIMULATION

VACUUM CHAMBERS

## SPACE ENVIRONMENTAL LUBRICATION

USE SPACECRAFT LUBRICATION

## #SPACE ERECTABLE STRUCTURES

3009 3109

NT BEACON EXPLORER A

BEACON SATELLITES

EXPLORER 22 SATELLITE

INFLATABLE SPACECRAFT

RT #EXPANDABLE STRUCTURES

FOLDING STRUCTURES

INFLATABLE STRUCTURES

ORBITAL ASSEMBLY

RIGID STRUCTURES

SELF ERECTING DEVICES

SPACE STATIONS

SPACECRAFT MODULES

SPACECRAFT STRUCTURES

STRUCTURES

## SPACE EXPLORATION

3004 3007 3009 3409

UP PLANETARY EXPLORATION

NT VIKING MARS PROGRAM

BT #EXPLORATION

RT AEROSPACE ENVIRONMENTS

ASTRODYNAMICS

ASTRONAUTICS

BIOASTRONAUTICS

EXTRATERRESTRIAL ENVIRONMENTS

EXTRATERRESTRIAL RESOURCES

FRENCH SPACE PROGRAMS

INTERPLANETARY FLIGHT

#INTERPLANETARY SPACECRAFT

LUNAR EXPLORATION

MANNED SPACE FLIGHT

MARS 69 PROJECT

MARS 71 PROJECT

PLANETARY BASES

PLANETARY COMPOSITION

#SPACE FLIGHT

SPACE MISSIONS

SPACE NAVIGATION

TOPS (SPACECRAFT)

VIKING LANDER SPACECRAFT

VIKING ORBITER SPACECRAFT

## #SPACE FLIGHT

3009 3110 3409

NT APOLLO 5 FLIGHT

APOLLO 7 FLIGHT

APOLLO 8 FLIGHT

APOLLO 9 FLIGHT

APOLLO 10 FLIGHT

APOLLO 11 FLIGHT

APOLLO 12 FLIGHT

APOLLO 13 FLIGHT

APOLLO 14 FLIGHT

APOLLO 15 FLIGHT

APOLLO 16 FLIGHT

ASA THESAURUS (ALPHABETICAL LISTING)

APOLLO FLIGHTS  
 GEMINI 3 FLIGHT  
 GEMINI 4 FLIGHT  
 GEMINI 5 FLIGHT  
 GEMINI 6 FLIGHT  
 GEMINI 7 FLIGHT  
 GEMINI 8 FLIGHT  
 GEMINI 9 FLIGHT  
 GEMINI 10 FLIGHT  
 GEMINI 11 FLIGHT  
 GEMINI 12 FLIGHT  
 GEMINI FLIGHTS  
 HYPERBOLIC REENTRY  
 HYPERSONIC REENTRY  
 INTERPLANETARY FLIGHT  
 INTERSTELLAR TRAVEL  
 LUNAR FLIGHT  
 MANNED REENTRY  
 MANNED SPACE FLIGHT  
 MERCURY FLIGHTS  
 MERCURY MA-1 FLIGHT  
 MERCURY MA-2 FLIGHT  
 MERCURY MA-3 FLIGHT  
 MERCURY MA-4 FLIGHT  
 MERCURY MA-5 FLIGHT  
 MERCURY MA-6 FLIGHT  
 MERCURY MA-7 FLIGHT  
 MERCURY MA-8 FLIGHT  
 MERCURY MA-9 FLIGHT  
 MERCURY MR-1 FLIGHT  
 MERCURY MR-2 FLIGHT  
 MERCURY MR-3 FLIGHT  
 MERCURY MR-4 FLIGHT  
 RETURN TO EARTH SPACE FLIGHT  
 SPACECRAFT REENTRY  
 VIKING MARS PROGRAM  
 VIKING MARS PROGRAM  
 AEROSPACE ENVIRONMENTS  
 ASCENT PROPULSION SYSTEMS  
 ASTRODYNAMICS  
 ASTRONAUTICS  
 #ATMOSPHERIC ENTRY  
 AUXILIARY PROPULSION  
 BIOASTRONAUTICS  
 #CELESTIAL BODIES  
 EXPEDITIONS  
 #EXPLORATION  
 EXTRAVEHICULAR ACTIVITY  
 FLIGHT  
 FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 FLIGHT SIMULATION  
 FLIGHT MISSIONS  
 GRAND TOURS  
 METEOROLOGICAL FLIGHT  
 MISSIONS  
 #ORBITS  
 POINTING CONTROL SYSTEMS  
 #PROPULSION  
 REENTRY  
 ROCKET FLIGHT  
 ROCKETS  
 SOLAR SAILS  
 SPACE EXPLORATION  
 SPACE MAINTENANCE  
 SPACE MISSIONS  
 SPACE NAVIGATION  
 SPACE PROBES  
 SPACE TRANSPORTATION  
 SPACECRAFT GUIDANCE  
 SPACECRAFT MANEUVERS  
 SPACECRAFT PROPULSION  
 SUBORBITAL FLIGHT  
 #TRAJECTORIES  
 VIKING LANDER SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
 SPACE FLIGHT FEEDING  
 0505 0507 3104  
 RT DEHYDRATED FOOD  
 DIETS  
 EATING  
 FOOD  
 FOOD INTAKE  
 LIFE SUPPORT SYSTEMS  
 NUTRITION  
 NUTRITIONAL REQUIREMENTS  
 SPACE RATIONS  
 WASTE DISPOSAL  
 SPACE FLIGHT STRESS  
 0401 0408 0410 0503 0506  
 BT FLIGHT STRESS (BIOLOGY)  
 RT BOREDOM  
 FLIGHT STRESS

MANNED SPACE FLIGHT  
 #STRESS (PHYSIOLOGY)  
 STRESS (PSYCHOLOGY)  
 WEIGHTLESSNESS  
 SPACE FLIGHT TRAINING  
 0401 0502 3104 3409  
 BT #EDUCATION  
 FLIGHT TRAINING  
 RT ASTRONAUT TRAINING  
 PILOT TRAINING  
 SPACE COMMUNICATION  
 SPACE MAINTENANCE  
 SPACE NAVIGATION  
 SPACECRAFT CABIN SIMULATORS  
 TRAINING SIMULATORS  
 SPACE GLIDERS  
 USE LIFTING REENTRY VEHICLES  
 SPACE GLOSSARIES  
 3405  
 RT BIBLIOGRAPHIES  
 DOCUMENTATION  
 INDEXES (DOCUMENTATION)  
 INFORMATION RETRIEVAL  
 SPACE LABORATORIES  
 3104 3107 3109 3409  
 BT MANNED ORBITAL LABORATORIES  
 MANNED ORBITAL RESEARCH  
 LABORATORIES  
 BT #LABORATORIES  
 RT AEROSPACE SCIENCES  
 ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL SATELLITES  
 RESEARCH FACILITIES  
 RESEARCH VEHICLES  
 SPACE STATIONS  
 SPACECRAFT  
 SPACE LAW  
 3401 3403 3409  
 BT INTERNATIONAL LAW  
 #LAW (JURISPRUDENCE)  
 SPACE LOGISTICS  
 0707 1103 1105 2102 3006 3009 3104 3109  
 BT LOGISTICS  
 RT EXTRATERRESTRIAL RESOURCES  
 MANNED SPACE FLIGHT  
 SPACE BASES  
 SPACE MAINTENANCE  
 SPACE STORAGE  
 SPACECRAFT CABIN SIMULATORS  
 SPACE MAINTENANCE  
 1105 3104 3109  
 BT MAINTENANCE  
 RT ASTRONAUT TRAINING  
 ASTRONAUTICS  
 EXTRAVEHICULAR ACTIVITY  
 ORBITAL WORKERS  
 #SPACE FLIGHT  
 SPACE FLIGHT TRAINING  
 SPACE LOGISTICS  
 SPACE TOOLS  
 SPACE MECHANICS  
 0709 1901 2308 3006 3009  
 NT ASTRODYNAMICS  
 CELESTIAL MECHANICS  
 KEPLER LAWS  
 MINIMUM VARIANCE ORBIT  
 DETERMINATION  
 ORBITAL MECHANICS  
 BT #CLASSICAL MECHANICS  
 RT FLIGHT MECHANICS  
 MAGNETOHYDRODYNAMICS  
 QUADRATURES  
 SPACE MISSIONS  
 3004 3007 3104 3409  
 RT EARTH-VENUS TRAJECTORIES  
 FLIGHT MISSIONS  
 FRENCH SPACE PROGRAMS  
 GRAND TOURS  
 MISSIONS  
 SPACE EXPLORATION  
 #SPACE FLIGHT  
 SPACE PROGRAMS  
 SPACE SHUTTLES  
 SPACE TRANSPORTATION  
 SPACECRAFT  
 TOPS (SPACECRAFT)  
 SPACE NAVIGATION  
 1410 2102 2103 3006  
 NT INTERPLANETARY NAVIGATION  
 BT #NAVIGATION  
 RT AIR NAVIGATION

SPACE PROBES

ASTRODYNAMICS  
 ASTRONAUTICS  
 CELESTIAL NAVIGATION  
 DIGITAL NAVIGATION  
 EARTH-VENUS TRAJECTORIES  
 INERTIAL NAVIGATION  
 INTERPLANETARY FLIGHT  
 INTERPLANETARY TRAJECTORIES  
 #MANNED SPACECRAFT  
 ORBITAL MECHANICS  
 #ORBITS  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 SATELLITE GUIDANCE  
 SATELLITE NAVIGATION SYSTEMS  
 SPACE EXPLORATION  
 #SPACE FLIGHT  
 SPACE FLIGHT TRAINING  
 SPACE STATIONS  
 SPACECRAFT GUIDANCE  
 SPACECRAFT POSITION INDICATORS  
 STANDARDIZED SPACE GUIDANCE  
 SPACE ORIENTATION  
 0401 0408 0501 0502 0506  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ATTITUDE (INCLINATION)  
 BEARING (DIRECTION)  
 VERTICAL PERCEPTION  
 VISUAL PERCEPTION  
 SPACE PERCEPTION  
 0401 0405 0408  
 UP DEPTH PERCEPTION  
 DISTANCE PERCEPTION  
 FORM PERCEPTION  
 MOTION PERCEPTION  
 SIZE PERCEPTION  
 SLANT PERCEPTION  
 NT AUTOKINESIS  
 BT #PERCEPTION  
 SENSORY PERCEPTION  
 VISUAL PERCEPTION  
 RT BINOCULAR VISION  
 MONOCULAR VISION  
 RANGE FINDERS  
 SOUND LOCALIZATION  
 VISUAL FIELDS  
 SPACE PHOTOGRAPHY  
 USE SPACEBORNE PHOTOGRAPHY  
 SPACE POWER UNIT REACTORS  
 0302 2201 2204  
 UP SPUR (REACTORS)  
 NT FISSION ELECTRIC CELLS  
 SNAP 10A  
 SNAP 2  
 SNAP 4  
 SNAP 8  
 BT #AUXILIARY POWER SOURCES  
 NUCLEAR AUXILIARY POWER UNITS  
 #NUCLEAR ELECTRIC POWER GENERATION  
 NUCLEAR POWER REACTORS  
 #NUCLEAR REACTORS  
 SNAP  
 RT HEAT EXCHANGERS  
 TURBOGENERATORS  
 SPACE PROBES  
 3108 3409  
 NT EXPLORER 18 SATELLITE  
 JUPITER PROBES  
 LUNAR PROBES  
 LUNIK 1 LUNAR PROBE  
 LUNIK 2 LUNAR PROBE  
 LUNIK 3 LUNAR PROBE  
 LUNIK 4 LUNAR PROBE  
 LUNIK 9 LUNAR PROBE  
 LUNIK 10 LUNAR PROBE  
 LUNIK 11 LUNAR PROBE  
 LUNIK 12 LUNAR PROBE  
 LUNIK 13 LUNAR PROBE  
 LUNIK 14 LUNAR PROBE  
 LUNIK LUNAR PROBES  
 MARINER C SPACECRAFT  
 MARINER-MERCURY 1973  
 MARINER R 1 SPACE PROBE  
 MARINER R 2 SPACE PROBE  
 MARINER 1 SPACE PROBE  
 MARINER 2 SPACE PROBE  
 MARINER 3 SPACE PROBE  
 MARINER 4 SPACE PROBE  
 MARINER 5 SPACE PROBE  
 MARINER 11 SPACE PROBE

## SPACE PROGRAMS

MARINER SPACE PROBES  
 MARINER SPACECRAFT  
 MARINER VENUS-MERCURY 1973  
 MARINER VENUS 67 SPACECRAFT  
 MARS PROBES  
 MARS 1 SPACECRAFT  
 PIONEER 1 SPACE PROBE  
 PIONEER 2 SPACE PROBE  
 PIONEER 3 SPACE PROBE  
 PIONEER 4 SPACE PROBE  
 PIONEER 5 SPACE PROBE  
 PIONEER 6 SPACE PROBE  
 PIONEER 7 SPACE PROBE  
 PIONEER 8 SPACE PROBE  
 PIONEER 9 SPACE PROBE  
 PIONEER SPACE PROBES  
 RANGER LUNAR LANDING VEHICLES  
 RANGER 1 LUNAR PROBE  
 RANGER 2 LUNAR PROBE  
 RANGER 3 LUNAR PROBE  
 RANGER 4 LUNAR PROBE  
 RANGER 5 LUNAR PROBE  
 RANGER 6 LUNAR PROBE  
 RANGER 7 LUNAR PROBE  
 RANGER 8 LUNAR PROBE  
 RANGER 9 LUNAR PROBE  
 RANGER 10 LUNAR PROBE  
 RANGER LUNAR PROBES  
 SOLAR PROBES  
 SUNBLAZER SPACE PROBE  
 SURVEYOR 1 LUNAR PROBE  
 SURVEYOR 2 LUNAR PROBE  
 SURVEYOR 3 LUNAR PROBE  
 SURVEYOR 4 LUNAR PROBE  
 SURVEYOR 5 LUNAR PROBE  
 SURVEYOR 6 LUNAR PROBE  
 SURVEYOR LUNAR PROBES  
 VENERA 2 SATELLITE  
 VENERA 3 SATELLITE  
 VENERA 4 SATELLITE  
 VENERA 5 SATELLITE  
 VENERA 6 SATELLITE  
 VENERA SATELLITES  
 VENUS PROBES  
 VIKING MARS PROGRAM  
 ZOND 1 SPACE PROBE  
 ZOND 2 SPACE PROBE  
 ZOND 3 SPACE PROBE  
 ZOND 4 SPACE PROBE  
 ZOND 5 SPACE PROBE  
 ZOND 6 SPACE PROBE  
 ZOND 7 SPACE PROBE  
 BT #UNMANNED SPACECRAFT  
 RT ATLAS ABL 5 LAUNCH VEHICLE  
 #INTERPLANETARY SPACECRAFT  
 MAGNETIC PROBES  
 #MANEUVERABLE SPACECRAFT  
 MARINER PROGRAM  
 METEOROLOGICAL SATELLITES  
 PIONEER PROJECT  
 PROBES  
 SATELLITE TELEVISION  
 #SATELLITES  
 #SPACE FLIGHT  
 SPACE TUGS  
 VIKING LANDER SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
 VOYAGER PROJECT  
 SPACE PROGRAMS  
 3409  
 NT APOLLO PROJECT  
 EUROPEAN SPACE PROGRAMS  
 FRENCH SPACE PROGRAMS  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 LUNAR PROGRAMS  
 SURVEYOR PROJECT  
 TEKTITE PROJECT  
 U.S.S.R. SPACE PROGRAM  
 BT #PROGRAMS  
 RT MANNED SPACE FLIGHT  
 NASA PROGRAMS  
 NATIONAL LAUNCH VEHICLE PROGRAM  
 RESEARCH PROJECTS  
 SPACE MISSIONS  
 SPACE TRANSPORTATION  
 SPACE RADIATION  
 USE #EXTRATERRESTRIAL RADIATION  
 SPACE RADIATORS  
 USE SPACECRAFT RADIATORS  
 SPACE RATIONS  
 0401 0505  
 BT RATIONS

RT FOOD  
 PROVISIONING  
 SPACE FLIGHT FEEDING  
 SPACE RENDEZVOUS  
 3006 3007  
 UP SPACE RENDEZVOUS MANEUVERS  
 SPACECRAFT RENDEZVOUS  
 NT EARTH ORBITAL RENDEZVOUS  
 LUNAR ORBITAL RENDEZVOUS  
 ORBITAL RENDEZVOUS  
 BT #RENDEZVOUS  
 RT RENDEZVOUS TRAJECTORIES  
 TRANSFER ORBITS  
 SPACE RENDEZVOUS MANEUVERS  
 USE SPACE RENDEZVOUS  
 SPACECRAFT MANEUVERS  
 SPACE SCIENCES  
 USE AEROSPACE SCIENCES  
 SPACE SELF MANEUVERING UNITS  
 USE SELF MANEUVERING UNITS  
 SPACE SHUTTLES  
 3104 3105 3110 3409  
 BT #MANNED SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 REUSABLE SPACECRAFT  
 REUSABLE SPACECRAFT  
 RT AUXILIARY PROPULSION  
 MANNED SPACE FLIGHT  
 SPACE MISSIONS  
 SPACE TRANSPORTATION  
 SPACECRAFT  
 SPACECRAFT RECOVERY  
 SPACE SIMULATORS  
 0502 1107 3009  
 UP ORBITAL SIMULATORS  
 NT HIGH VACUUM ORBITAL SIMULATOR  
 BT ENVIRONMENT SIMULATORS  
 #SIMULATORS  
 RT CENTRIFUGES  
 FLIGHT SIMULATORS  
 SOLAR SIMULATORS  
 SPACE ENVIRONMENT SIMULATION  
 VACUUM CHAMBERS  
 SPACE STATIONS  
 3009 3109 3409  
 UP SELF DEPLOYING SPACE STATIONS  
 NT HALO ORBIT SPACE STATION  
 ORBITAL SPACE STATIONS  
 ORBITAL WORKSHOPS  
 SPACE BASE COMMAND CENTER  
 BT #MANNED SPACECRAFT  
 #STATIONS  
 RT ARTIFICIAL SATELLITES  
 BIOASTRONAUTICS  
 FERRY SPACECRAFT  
 INFLATABLE STRUCTURES  
 #MILITARY SPACECRAFT  
 PLATFORMS  
 RENDEZVOUS SPACECRAFT  
 #SATELLITES  
 SATURN 1 WORKSHOP  
 SATURN 5 WORKSHOP  
 SATURN WORKSHOPS  
 SPACE BASES  
 #SPACE ERECTABLE STRUCTURES  
 SPACE LABORATORIES  
 SPACE NAVIGATION  
 SPIN STABILIZATION  
 SPACE STORAGE  
 0505 1103 3109  
 RT CRYOGENIC FLUID STORAGE  
 CRYOGENIC ROCKET PROPELLANTS  
 PROPELLANT STORAGE  
 SPACE LOGISTICS  
 STORABLE PROPELLANTS  
 STORAGE  
 STORAGE TANKS  
 SPACE SUITS  
 0504 0507 0508  
 BT #CLOTHING  
 PRESSURE SUITS  
 PROTECTIVE CLOTHING  
 SAFETY DEVICES  
 SUITS  
 SPACE SURVEILLANCE  
 0705 0707 3006 3107  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT SPACE SURVEILLANCE (GROUND BASED)  
 SPACE SURVEILLANCE (SPACEBORNE)

## NASA TREASURES (ALPHABETICAL LIST)

SPACE SURVEILLANCE (GROUND BASED)  
 0705 0707 1109 3401  
 RT AIR DEFENSE  
 ANTIMISSILE DEFENSE  
 MINITRACK SYSTEM  
 SPACE SURVEILLANCE  
 SPACECRAFT TRACKING  
 SPACE SURVEILLANCE (SPACEBORNE)  
 0705 0707 1109 3107 3401  
 RT AIR DEFENSE  
 ANTIMISSILE DEFENSE  
 HIGH ALTITUDE NUCLEAR DETECTION  
 ICE MAPPING  
 ICE REPORTING  
 #MILITARY SPACECRAFT  
 RECONNAISSANCE  
 SATELLITE-BORNE PHOTOGRAPHY  
 SPACE SURVEILLANCE  
 SPACECRAFT TRACKING  
 SPACE SYSTEMS ENGINEERING  
 USE AEROSPACE ENGINEERING  
 SPACE TEMPERATURE  
 1302 1408 3009 3303  
 BT #TEMPERATURE  
 RT ELECTRON ENERGY  
 ION TEMPERATURE  
 SPACE-TIME CONTINUUM  
 USE RELATIVITY  
 SPACE-TIME FUNCTIONS  
 1902 2308  
 UP SPACE-TIME METRIC  
 BT #FUNCTIONS (MATHEMATICS)  
 RT MINKOWSKI SPACE  
 RELATIVITY  
 SPACE-TIME METRIC  
 USE SPACE-TIME FUNCTIONS  
 SPACE TOOLS  
 0506 1504 3404  
 BT #TOOLS  
 RT LOW GRAVITY MANUFACTURING  
 ORBITAL WORKERS  
 SPACE MAINTENANCE  
 SPACE TRANSPORTATION  
 3004 3006 3007 3009 3110 3409  
 BT #TRANSPORTATION  
 RT PAYLOADS  
 SPACE BASES  
 #SPACE FLIGHT  
 SPACE MISSIONS  
 SPACE PROGRAMS  
 SPACE SHUTTLES  
 SPACE TUGS  
 2804 3110  
 RT #MODULES  
 PAYLOADS  
 #PROPULSION  
 SPACE PROBES  
 SPACECRAFT PROPULSION SYSTEMS  
 SPACE VEHICLE CHECKOUT PROGRAM  
 1102 1104 1108 3110  
 UP SPACECRAFT PRELAUNCH TESTS  
 RT CHECKOUT  
 SPACE VEHICLE CONTROL  
 USE #SPACECRAFT CONTROL  
 SPACE VEHICLES  
 USE SPACECRAFT  
 SPACE WEAPONS  
 3101 3106 3401  
 BT #WEAPONS  
 RT AIR TO AIR MISSILES  
 ANTIMISSILE MISSILES  
 CHAPARRAL MISSILE  
 MINUTEMAN ICBM  
 NUCLEAR WEAPONS  
 SURFACE TO AIR MISSILES  
 #WEAPON SYSTEMS  
 SPACEBORNE ASTRONOMY  
 3001  
 BT ASTRONOMY  
 RT SAS-A  
 SAS-B  
 SAS-C  
 SAS-D  
 SPACEBORNE TELESCOPES  
 #TELESCOPES  
 SPACEBORNE PHOTOGRAPHY  
 1407  
 UP SPACE PHOTOGRAPHY  
 NT SATELLITE-BORNE PHOTOGRAPHY  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT AERIAL PHOTOGRAPHY

# NASA THESAURUS (ALPHABETICAL LISTING)

ASTRONOMICAL PHOTOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 CLOUD PHOTOGRAPHS  
 CLOUD PHOTOGRAPHY  
 EARTH RESOURCES  
 LUNAR PHOTOGRAPHS  
 LUNAR PHOTOGRAPHY  
 MULTISPECTRAL BAND SCANNERS  
 ROCKET-BORNE PHOTOGRAPHY  
 SATELLITE OBSERVATION  
 SPACEBORNE TELESCOPES  
 3001 1412  
 BT #TELESCOPES  
 RT ASTRONOMICAL OBSERVATORIES  
 ASTRONOMICAL PHOTOGRAPHY  
 ASTRONOMICAL TELESCOPES  
 ASTRONOMY  
 SPACEBORNE ASTRONOMY  
 SPACECRAFT  
 3110  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UF SPACE VEHICLES  
 RT AEROSPACE VEHICLES  
 ASTRO VEHICLE  
 ASTRODYNAMICS  
 AUXILIARY PROPULSION  
 BIOSATELLITES  
 CARGO SPACECRAFT  
 DUAL SPIN SPACECRAFT  
 EARTH SATELLITES  
 ESCAPE ROCKETS  
 #EXPANDABLE STRUCTURES  
 FLIGHT TEST VEHICLES  
 GROUND SUPPORT EQUIPMENT  
 #HYPERSONIC VEHICLES  
 INFLATABLE SPACECRAFT  
 #INTERPLANETARY SPACECRAFT  
 #LAUNCH VEHICLES  
 #LUNAR SPACECRAFT  
 #MANEUVERABLE SPACECRAFT  
 MANNED ORBITAL RESEARCH  
 LABORATORIES  
 #MANNED SPACECRAFT  
 MARK 1 SPACECRAFT  
 #MILITARY SPACECRAFT  
 PHAETON SPACE VEHICLE  
 PHOTO RECONNAISSANCE SPACECRAFT  
 POWER LIMITED SPACECRAFT  
 RADIATION METEOROID SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 RESEARCH VEHICLES  
 #SATELLITES  
 SATELLOIDS  
 SERT 1 SPACECRAFT  
 SERT 2 SPACECRAFT  
 #SOFT LANDING SPACECRAFT  
 #SPACE CAPSULES  
 SPACE DEBRIS  
 SPACE LABORATORIES  
 SPACE MISSIONS  
 SPACE SHUTTLES  
 SPACECRAFT CABIN SIMULATORS  
 SPACECRAFT MODULES  
 TECHNOLOGY FEASIBILITY SPACECRAFT  
 TEST VEHICLES  
 TOPS (SPACECRAFT)  
 UNIDENTIFIED FLYING OBJECTS  
 #UNMANNED SPACECRAFT  
 VIKING ORBITER SPACECRAFT  
 SPACECRAFT ANTENNAS  
 0701 0901  
 BT ANTENNAS  
 #RADIO EQUIPMENT  
 #TELECOMMUNICATION  
 FURABLE ANTENNAS  
 RT SPACECRAFT CABIN ATMOSPHERES  
 0504 0505 0507 1107 3104  
 BT CABIN ATMOSPHERES  
 #CONTROLLED ATMOSPHERES  
 RT CARBON DIOXIDE CONCENTRATION  
 CLOSED ECOLOGICAL SYSTEMS  
 COCKPITS  
 ENVIRONMENTAL CONTROL  
 HIGH PRESSURE OXYGEN  
 PRESSURIZED CABINS  
 REBREATHING  
 SPACECRAFT CONTAMINATION  
 SPACECRAFT ENVIRONMENTS

SPACECRAFT CABIN SIMULATORS  
 0504 0507 3104  
 BT #SIMULATORS  
 TRAINING SIMULATORS  
 RT AEROSPACE ENVIRONMENTS  
 COCKPIT SIMULATORS  
 #MANNED SPACECRAFT  
 #SIMULATION  
 SPACE FLIGHT TRAINING  
 SPACE LOGISTICS  
 SPACECRAFT  
 #TEST FACILITIES  
 SPACECRAFT CABINS  
 0504 0507 3104  
 BT #COMPARTMENTS  
 #SPACECRAFT COMPONENTS  
 RT CABINS  
 COCKPITS  
 PRESSURIZED CABINS  
 #SPACE CAPSULES  
 SPACECRAFT ENVIRONMENTS  
 SPACECRAFT MODULES  
 SPACECRAFT STRUCTURES  
 SPACECRAFT COMMUNICATION  
 0705 0706 0707 3110  
 (COMMUNICATION OF SPACECRAFT WITH  
 GROUND OR OTHER SPACECRAFT)  
 UF SATELLITE COMMUNICATIONS  
 RT REENTRY COMMUNICATION  
 SPACE COMMUNICATION  
 #TELECOMMUNICATION  
 RT ASTRONICS  
 CIRCUMLUNAR COMMUNICATION  
 PACSIMILE COMMUNICATION  
 GROUND-AIR-GROUND COMMUNICATIONS  
 INTERPLANETARY COMMUNICATION  
 LUNAR COMMUNICATION  
 OPTICAL COMMUNICATION  
 RADIO COMMUNICATION  
 SATELLITE COMMUNICATIONS SHIPS  
 SATELLITE GROUND SUPPORT  
 UNIFIED S BAND  
 WIRELESS COMMUNICATIONS  
 #SPACECRAFT COMPONENTS  
 3110  
 RT COMMAND MODULES  
 LANDING MODULES  
 LUNAR LANDING MODULES  
 LUNAR MODULE  
 MARS EXCURSION MODULE  
 SERVICE MODULES  
 SPACECRAFT CABINS  
 SPACECRAFT MODULES  
 RT AIRBORNE/SPACEBORNE COMPUTERS  
 COMPONENTS  
 NOSE CONES  
 ROCKET ENGINES  
 SPACECRAFT CONFIGURATIONS  
 3009 3110 3401  
 RT APOLLO TELESCOPE MOUNT  
 SATELLITE CONFIGURATIONS  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT CONFIGURATIONS  
 APOLLO SHORT STACK  
 CONFIGURATIONS  
 FLARED BODIES  
 LAUNCH VEHICLE CONFIGURATIONS  
 PROPULSION SYSTEM CONFIGURATIONS  
 RADIATION METEOROID SPACECRAFT  
 #REENTRY VEHICLES  
 SPACECRAFT MODELS  
 SPACECRAFT STRUCTURES  
 SPACECRAFT CONSTRUCTION MATERIALS  
 1701 1802 1805 3110  
 RT CONSTRUCTION MATERIALS  
 SPACECRAFT DESIGN  
 SPACECRAFT STRUCTURES  
 SPACECRAFT CONTAMINATION  
 0504 1102 3110  
 BT CONTAMINATION  
 RT DECONTAMINATION  
 EXOBIOLOGY  
 SPACECRAFT CABIN ATMOSPHERES  
 SPACECRAFT ENVIRONMENTS  
 SPACECRAFT STERILIZATION  
 #SPACECRAFT CONTROL  
 0707 2102 3006 3110  
 UF SPACE VEHICLE CONTROL  
 RT SATELLITE ATTITUDE CONTROL  
 SATELLITE CONTROL  
 RT #ATTITUDE CONTROL  
 #AUTOMATIC CONTROL

## SPACECRAFT GUIDANCE

CONTROL  
 CONTROL SIMULATION  
 ENGINE CONTROL  
 #FLIGHT CONTROL  
 FLY BY WIRE CONTROL  
 #GROUND BASED CONTROL  
 MANUAL CONTROL  
 MARQUARDT R4D ENGINE  
 MISSILE CONTROL  
 POINTING CONTROL SYSTEMS  
 RADIO CONTROL  
 REMOTE CONTROL  
 ROCKET ENGINE CONTROL  
 SPACECRAFT GUIDANCE  
 SPACECRAFT MANEUVERS  
 STATIONKEEPING  
 THRUST VECTOR CONTROL  
 VISUAL CONTROL  
 SPACECRAFT DESIGN  
 0101 3110 3203 3404  
 RT SATELLITE DESIGN  
 RT COMPUTERIZED DESIGN  
 DESIGN  
 ENGINE DESIGN  
 LOFTING  
 PRODUCT DEVELOPMENT  
 SATELLITE TEMPERATURE  
 SPACE DEBRIS  
 SPACECRAFT CONSTRUCTION MATERIALS  
 SPACECRAFT MODELS  
 SPACECRAFT RELIABILITY  
 SPACECRAFT STABILITY  
 SPACECRAFT STRUCTURES  
 STRUCTURAL DESIGN  
 SYSTEMS ENGINEERING  
 SPACECRAFT DOCKING  
 2102 3004 3007 3110  
 UF DOCKING  
 RT #MANEUVERS  
 SIDESLIP  
 RT ASTRONAUTICS  
 MOORING  
 MULTIPLE DOCKING ADAPTERS  
 ORBITAL RENDEZVOUS  
 ORBITAL SPACE STATIONS  
 RENDEZVOUS TRAJECTORIES  
 TRANSFER ORBITS  
 SPACECRAFT ELECTRONIC EQUIPMENT  
 0905 1002 1410 3110  
 RT AIRBORNE/SPACEBORNE COMPUTERS  
 RT #ONBOARD EQUIPMENT  
 RT ASTRONICS  
 SPACECRAFT ENVIRONMENTS  
 0504 0507 3110  
 RT #ENVIRONMENTS  
 RT AEROSPACE MEDICINE  
 ASTRONAUTS  
 BIOASTRONAUTICS  
 CLOSED ECOLOGICAL SYSTEMS  
 #CONTROLLED ATMOSPHERES  
 COSMONAUTS  
 COUCHES  
 ENVIRONMENTAL CONTROL  
 EXOBIOLOGY  
 EXTRATERRESTRIAL ENVIRONMENTS  
 GRAVITATION  
 INTRAVEHICULAR ACTIVITY  
 LIFE SUPPORT SYSTEMS  
 ROTATING ENVIRONMENTS  
 SATELLITE TEMPERATURE  
 SPACECRAFT CABIN ATMOSPHERES  
 SPACECRAFT CABINS  
 SPACECRAFT CONTAMINATION  
 THERMAL ENVIRONMENTS  
 WEIGHTLESSNESS  
 SPACECRAFT GUIDANCE  
 0707 1904 2102 3006  
 RT SATELLITE GUIDANCE  
 RT #GUIDANCE (MOTION)  
 RT #AUTOMATIC CONTROL  
 CELESTIAL NAVIGATION  
 COMMAND GUIDANCE  
 #GROUND BASED CONTROL  
 INERTIAL GUIDANCE  
 INJECTION GUIDANCE  
 INTERPLANETARY FLIGHT  
 INTERPLANETARY TRAJECTORIES  
 MANUAL CONTROL  
 MIDCOURSE GUIDANCE  
 #ORBITS  
 REENTRY GUIDANCE  
 RENDEZVOUS GUIDANCE

# #SPACECRAFT INSTRUMENTS

#SPACE FLIGHT  
SPACE NAVIGATION  
#SPACECRAFT CONTROL  
#SPACECRAFT INSTRUMENTS  
SPACECRAFT TRAJECTORIES  
STAR TRACKERS  
TERMINAL GUIDANCE  
#SPACECRAFT INSTRUMENTS  
0902 1410 2802 3110  
UF SPACECRAFT SENSORS  
BT LASER ALTIMETERS  
RT SATELLITE INSTRUMENTS  
SPACECRAFT POSITION INDICATORS  
RT ASTRONICS  
#FLIGHT INSTRUMENTS  
FLIGHT TEST INSTRUMENTS  
GUIDANCE SENSORS  
INSTRUMENT PACKAGES  
INSTRUMENTS  
#MEASURING INSTRUMENTS  
#ONBOARD EQUIPMENT  
SPACECRAFT GUIDANCE  
SPACECRAFT LANDING  
3004 3007 3009 3110 3201  
BT HORIZONTAL SPACECRAFT LANDING  
RT LUNAR LANDING  
MARS LANDING  
PLANETARY LANDING  
BT #LANDING  
RT AIRCRAFT LANDING  
CRASH LANDING  
GLIDE LANDINGS  
LANDING SIMULATION  
SOFT LANDING  
#SOFT LANDING SPACECRAFT  
SPACECRAFT RECOVERY  
TOUCHDOWN  
VERTICAL LANDING  
WATER LANDING  
SPACECRAFT LAUNCHING  
1104 3102 3103  
UF SATELLITE LAUNCHING  
BT #LAUNCHING  
RT COUNTDOWN  
LAUNCH DATES  
#LAUNCH VEHICLES  
LAUNCH WINDOWS  
LAUNCHING PADS  
#MISSILES  
ORBITAL LAUNCHING  
ORBITAL SHOTS  
REUSABLE LAUNCH VEHICLES  
ROCKET LAUNCHING  
SATELLITE LIFETIME  
SATELLITE NETWORKS  
SATELLITE ORBITS  
SATELLITE TRACKING  
#SATELLITES  
SPACECRAFT PROPULSION  
SPACECRAFT LUBRICATION  
1503 3110  
UF SPACE ENVIRONMENTAL LUBRICATION  
BT LUBRICATION  
RT SELF LUBRICATING MATERIALS  
SPACECRAFT MANEUVERS  
0707 2102 3006 3110  
UF SATELLITE MANEUVERS  
SPACE RENDEZVOUS MANEUVERS  
BT MANEUVERABLE REENTRY BODIES  
RT #MANEUVERS  
BT CONTROL SIMULATION  
MANEUVERABILITY  
#MANEUVERABLE SPACECRAFT  
#SPACE FLIGHT  
#SPACECRAFT CONTROL  
SPACECRAFT MODELS  
1108 3009 3110 3404  
BT #MODELS  
RT AIRCRAFT MODELS  
DYNAMIC MODELS  
MATHEMATICAL MODELS  
SCALE MODELS  
SPACECRAFT CONFIGURATIONS  
SPACECRAFT DESIGN  
SPACECRAFT STRUCTURES  
SPACECRAFT MODULES  
2806 3009 3110  
BT LANDING MODULES  
LUNAR LANDING MODULES  
LUNAR MODULE  
MARS EXCURSION MODULE  
BT #MODULES

#SPACECRAFT COMPONENTS  
RT COMMAND MODULES  
#COMPARTMENTS  
ORBITAL ASSEMBLY  
SERVICE MODULES  
#SPACE CAPSULES  
#SPACE ERECTABLE STRUCTURES  
SPACECRAFT  
SPACECRAFT CABINS  
SPACECRAFT MOTION  
0101 2102 3006 3009  
(NONTRAJECTORY MOTION)  
RT AERODYNAMIC BALANCE  
AERODYNAMIC STABILITY  
ATTITUDE STABILITY  
BUFFETING  
CONTROL STABILITY  
DYNAMIC STABILITY  
FLUTTER  
MOTION  
MOTION STABILITY  
#OSCILLATIONS  
SIDESLIP  
SPACECRAFT STABILITY  
#STABILITY  
TUMBLING MOTION  
#VIBRATION  
SPACECRAFT ORBITAL ASSEMBLY  
USE ORBITAL ASSEMBLY  
SPACECRAFT ORBITS  
1904 2102 3006 3110  
BT INTERPLANETARY TRANSFER ORBITS  
PARKING ORBITS  
POLAR ORBITS  
SATELLITE ORBITS  
STATIONARY ORBITS  
TRANSFER ORBITS  
TROJAN ORBITS  
TWENTY-FOUR HOUR ORBITS  
BT #ORBITS  
RT CIRCULAR ORBITS  
EARTH ORBITS  
ELLIPTICAL ORBITS  
EQUATORIAL ORBITS  
LUNAR ORBITS  
ORBITAL MECHANICS  
ORBITAL POSITION ESTIMATION  
PLANETARY ORBITS  
SOLAR ORBITS  
SPACECRAFT PERFORMANCE  
3009 3110 3409  
BT ASTRONAUT PERFORMANCE  
PERFORMANCE  
SPACECRAFT RELIABILITY  
SPACECRAFT STABILITY  
SPACECRAFT POSITION INDICATORS  
1410 2102 2103 3006 3110  
BT #AIRCRAFT INSTRUMENTS  
#DISPLAY DEVICES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
POSITION INDICATORS  
#SPACECRAFT INSTRUMENTS  
RT #FLIGHT INSTRUMENTS  
HEAD-UP DISPLAYS  
ORBITAL POSITION ESTIMATION  
SPACE NAVIGATION  
SPACECRAFT POWER SUPPLIES  
2201 2806 2808 3110 3303  
BT #AUXILIARY POWER SOURCES  
CRYOCYCLE PRINCIPLE  
DIRECT POWER GENERATORS  
ELECTRIC BATTERIES  
ENERGY SOURCES  
NUCLEAR AUXILIARY POWER UNITS  
POWER SUPPLIES  
#PROPELLANTS  
SPACECRAFT PRELAUNCH TESTS  
USE SPACE VEHICLE CHECKOUT PROGRAM  
SPACECRAFT PROPULSION  
2702 2808 3110 3301  
BT ELECTROMAGNETIC PROPULSION  
ELECTROSTATIC PROPULSION  
ION PROPULSION  
PHOTONIC PROPULSION  
PLASMA PROPULSION  
SOLAR PROPULSION  
RT #PROPULSION  
BT CHEMICAL PROPULSION  
DESCENT PROPULSION SYSTEMS  
ELECTRIC PROPULSION  
LOW THRUST PROPULSION

# NASA THESAURUS (ALPHABETICAL LISTING)

NUCLEAR ELECTRIC PROPULSION  
NUCLEAR PROPULSION  
POST BOOST PROPULSION SYSTEM  
#PROPELLANTS  
ROCKET ENGINES  
ROVER PROJECT  
SOLAR SAILS  
#SPACE FLIGHT  
SPACECRAFT LAUNCHING  
SPACECRAFT RADIATORS  
2806 2808 3110 3303  
UF SPACE RADIATORS  
BT HEAT RADIATORS  
RT CONDENSERS (LIQUIFIERS)  
#COOLING  
COOLING SYSTEMS  
RADIATIVE HEAT TRANSFER  
SOLAR REFLECTORS  
SPACECRAFT RECOVERY  
3009 3105 3110  
UF SNATCHING  
RT BOOSTER RECOVERY  
DISCOVERER RECOVERY CAPSULES  
RECOVERABLE SPACECRAFT  
RECOVERY  
RECOVERY PARACHUTES  
RECOVERY ZONES  
RESCUE OPERATIONS  
REUSABLE LAUNCH VEHICLES  
SPACE SHUTTLES  
SPACECRAFT LANDING  
SPACECRAFT REENTRY  
WATER LANDING  
SPACECRAFT REENTRY  
3006 3009 3105 3110  
BT #ATMOSPHERIC ENTRY  
REENTRY  
#SPACE FLIGHT  
RT EARTH-VENUS TRAJECTORIES  
FLIGHT MECHANICS  
HYPERSONIC REENTRY  
LIFTING REENTRY VEHICLES  
MANNED REENTRY  
RETURN TO EARTH SPACE FLIGHT  
SATELLITE LIFETIME  
SPACECRAFT RECOVERY  
SPACECRAFT TRAJECTORIES  
SPACECRAFT RELIABILITY  
1505 1905 3110 3404  
BT RELIABILITY  
RT CIRCUIT RELIABILITY  
COMPONENT RELIABILITY  
CONTROLLABILITY  
PRELAUNCH PROBLEMS  
QUALITY CONTROL  
SPACECRAFT DESIGN  
SPACECRAFT PERFORMANCE  
SPACECRAFT STABILITY  
STRUCTURAL RELIABILITY  
SPACECRAFT RENDEZVOUS  
USE SPACE RENDEZVOUS  
SPACECRAFT SENSORS  
USE #SPACECRAFT INSTRUMENTS  
SPACECRAFT SHIELDING  
2903 3110 3305  
BT #SHIELDING  
RT HEAT SHIELDING  
INSULATED STRUCTURES  
METEOROID PROTECTION  
NOSE CONES  
RADIATION SHIELDING  
RADIO FREQUENCY SHIELDING  
REENTRY SHIELDING  
SAFETY DEVICES  
SOLAR RADIATION SHIELDING  
SPACECRAFT STABILITY  
0101 2102 3006 3009  
UF SATELLITE ATTITUDE DISTURBANCE  
BT #DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
#STABILITY  
RT AERODYNAMIC BALANCE  
AERODYNAMIC STABILITY  
ATTITUDE STABILITY  
BUFFETING  
CONTROL STABILITY  
COUNTERBALANCES  
DIRECTIONAL STABILITY  
DUAL SPIN SPACECRAFT  
LATERAL STABILITY  
LIQUID SLOSHING

# NASA THESAURUS (ALPHABETICAL LISTING)

LONGITUDINAL STABILITY  
 LOW SPEED STABILITY  
 SATELLITE PERTURBATION  
 SPACECRAFT DESIGN  
 SPACECRAFT MOTION  
 SPACECRAFT PERFORMANCE  
 SPACECRAFT RELIABILITY  
 SPACECRAFT STRUCTURES  
 STRUCTURAL STABILITY  
 TUMBLING MOTION  
 WIND TUNNEL STABILITY TESTS  
 SPACECRAFT STERILIZATION  
 0504 3009 3110  
 BT DECONTAMINATION  
 STERILIZATION  
 RT CHEMICAL STERILIZATION  
 EXOBIOLOGY  
 PLANETARY QUARANTINE  
 PURIFICATION  
 SPACECRAFT CONTAMINATION  
 SPACECRAFT STRUCTURES  
 0102 3009 3110 3203  
 RT AIRCRAFT STRUCTURES  
 FOLDING STRUCTURES  
 FUEL TANKS  
 METEOROID PROTECTION  
 ORBITAL ASSEMBLY  
 ROCKET ENGINES  
 SATELLITE DESIGN  
 SPACE ERECTABLE STRUCTURES  
 SPACECRAFT CABINS  
 SPACECRAFT CONFIGURATIONS  
 SPACECRAFT CONSTRUCTION MATERIALS  
 SPACECRAFT DESIGN  
 SPACECRAFT MODELS  
 SPACECRAFT STABILITY  
 STRUCTURAL DESIGN  
 STRUCTURES  
 SPACECRAFT TELEVISION  
 0702 0707 1410 3110  
 NT DIGITAL SPACECRAFT TELEVISION  
 RANGER BLOCK 3 TELEVISION SYSTEM  
 SATELLITE TELEVISION  
 BT COMMUNICATION EQUIPMENT  
 RT COLOR TELEVISION  
 COMMUNICATION EQUIPMENT  
 SATELLITE TRANSMISSION  
 STEREO TELEVISION  
 TELEVISION TRANSMISSION  
 SPACECRAFT TRACKING  
 0709 1109 3006 3110  
 NT SATELLITE TRACKING  
 BT TRACKING (POSITION)  
 RT DEEP SPACE NETWORK  
 EDITAR SYSTEM  
 MINITRACK SYSTEM  
 MISSILE TRACKING  
 OPTICAL TRACKING  
 POLYSTATION DOPPLER TRACKING SYSTEM  
 RADAR TRACKING  
 RADIO TRACKING  
 SPACE DETECTION AND TRACKING SYSTEM  
 SPACE SURVEILLANCE (GROUND BASED)  
 SPACE SURVEILLANCE (SPACEBORNE)  
 TRACKING NETWORKS  
 TRACKING STATIONS  
 TRANSPONDER CONTROL GROUP  
 UNIFIED S BAND  
 SPACECRAFT TRAJECTORIES  
 1904 3006 3110  
 BT CIRCULUNAR TRAJECTORIES  
 EARTH-MARS TRAJECTORIES  
 EARTH-MERCURY TRAJECTORIES  
 EARTH-MOON TRAJECTORIES  
 EARTH-VENUS TRAJECTORIES  
 INTERPLANETARY TRAJECTORIES  
 LUNAR TRAJECTORIES  
 MOON-EARTH TRAJECTORIES  
 BT TRAJECTORIES  
 RT ASCENT TRAJECTORIES  
 DESCENT TRAJECTORIES  
 EARTH ORBITAL RENDEZVOUS  
 FLIGHT MECHANICS  
 HYPERBOLIC TRAJECTORIES  
 LUNAR ORBITAL RENDEZVOUS  
 MOTION  
 ORBITAL RENDEZVOUS  
 REENTRY TRAJECTORIES  
 RENDEZVOUS TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 SPACECRAFT GUIDANCE  
 SPACECRAFT REENTRY

SPACECREWS  
 0410 0502 1102 3104  
 BT FLYING PERSONNEL  
 PERSONNEL  
 RT ASTRONAUTS  
 SPACERS  
 1501 1504  
 RT BUSHINGS  
 DIVIDERS  
 FASTENERS  
 INSERTS  
 ISOLATORS  
 SEPARATORS  
 SPACING  
 WASHERS (SPACERS)  
 SPACING  
 0203 2101  
 NT AIRCRAFT APPROACH SPACING  
 RT ALTITUDE CONTROL  
 ATTITUDE CONTROL  
 CLEARANCES  
 INTERVALS  
 ISOLATION  
 POSITIONING  
 SEPARATION  
 SPACERS  
 THICKNESS  
 SPADATS (TRACKING SYSTEM)  
 USE SPACE DETECTION AND TRACKING SYSTEM  
 SPAIN  
 1305  
 RT EUROPE  
 NATIONS  
 SPALLATION  
 2403 2405  
 BT NUCLEAR RADIATION  
 NUCLEAR REACTIONS  
 RT PARTICLE PRODUCTION  
 SPALLING  
 2403 2405  
 RT CHIPPING  
 FLAKING  
 FRACTURING  
 FRAGMENTATION  
 NUCLEAR REACTIONS  
 WEAR  
 WEAR TESTS  
 SPAN  
 0202  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ASPECT RATIO  
 DIMENSIONS  
 LIFE SPAN  
 WIDTH  
 WING SPAN  
 SPARE PARTS  
 0303 1102 3406  
 RT COMPONENTS  
 DOWNTIME  
 ENGINE PARTS  
 INVENTORY MANAGEMENT  
 LOGISTICS MANAGEMENT  
 MAINTENANCE  
 MODULES  
 REDUNDANT COMPONENTS  
 SPARK CHAMBERS  
 0904 1002 2304  
 BT COUNTERS  
 IONIZATION CHAMBERS  
 MEASURING INSTRUMENTS  
 RADIATION COUNTERS  
 RT BUBBLE CHAMBERS  
 CHAMBERS  
 CLOUD CHAMBERS  
 ELECTRIC SPARKS  
 NEUTRON COUNTERS  
 SPARK DISCHARGES  
 USE ELECTRIC SPARKS  
 SPARK GAPS  
 1002 2304  
 BT GAPS  
 RT ARC GENERATORS  
 DIELECTRICS  
 ELECTRIC FIELDS  
 ELECTRIC SPARKS  
 ELECTRICAL FAULTS  
 MULTIFACTOR DISCHARGES  
 POTENTIAL GRADIENTS  
 SPARK IGNITION  
 SPARK PLUGS

SPATIAL ISOTROPY  
 TRIGATHONS  
 SPARK IGNITION  
 1002 2301 3301  
 BT IGNITION  
 RT COMBUSTION  
 ELECTRIC IGNITION  
 ELECTRIC SPARKS  
 EUDIMETERS  
 SPARK GAPS  
 SPARK PLUGS  
 SPARK MACHINING  
 1504 2304  
 UP ELECTROEROSION  
 ELECTROSTATIC EROSION  
 BT CUTTING  
 MACHINING  
 RT ELECTROFORMING  
 EROSION  
 METAL CUTTING  
 PIERCING  
 SPARK PLUGS  
 0904 1504 3301  
 RT ARC GENERATORS  
 COMBUSTION CHAMBERS  
 ELECTRIC SPARKS  
 IGNITERS  
 IGNITION SYSTEMS  
 INTERNAL COMBUSTION ENGINES  
 SPARK GAPS  
 SPARK IGNITION  
 SPARK SHADOWGRAPH PHOTOGRAPHY  
 USE SHADOWGRAPH PHOTOGRAPHY  
 SPARKS  
 2304 2402 3301  
 NT ELECTRIC SPARKS  
 RT IGNITION  
 SPARROW 2 MISSILE  
 3101 3401  
 BT AIR TO AIR MISSILES  
 MISSILES  
 SPARROW MISSILES  
 RT SOLID PROPELLANT ROCKET ENGINES  
 SPARROW 3 MISSILE  
 3101 3401  
 BT AIR TO AIR MISSILES  
 MISSILES  
 SPARROW MISSILES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SPARROW MISSILES  
 3101 3106 3401  
 NT SPARROW 2 MISSILE  
 SPARROW 3 MISSILE  
 BT AIR TO AIR MISSILES  
 MISSILES  
 RT SOLID PROPELLANT ROCKET ENGINES  
 SPARTAN MISSILE  
 3101 3106 3401  
 SPASMS  
 0405 0408  
 BT MUSCULAR FUNCTION  
 SPATIAL DEPENDENCIES  
 2308 2311 2405  
 BT DEPENDENCE  
 SPATIAL DISTRIBUTION  
 1902 1905 3408  
 UP MOLIERE FORMULA  
 SPATIAL ISOTROPY  
 NT STAR DISTRIBUTION  
 BT DISTRIBUTION (PROPERTY)  
 RT ANISOTROPY  
 ION DISTRIBUTION  
 METEOROID CONCENTRATION  
 PARTICLE DENSITY (CONCENTRATION)  
 POSITION (LOCATION)  
 STEREOCHEMISTRY  
 VERTICAL DISTRIBUTION  
 SPATIAL FILTERING  
 2306 2310  
 BT FILTRATION  
 RT ABERRATION  
 ATTENUATION  
 AUGMENTATION  
 BLURRING  
 HOLOGRAPHY  
 IMAGES  
 NOISE  
 PHOTOGRAPHS  
 PHOTOINTERPRETATION  
 PLASMA WAVES  
 RESOLUTION  
 SPATIAL ISOTROPY  
 USE ISOTROPY



# SPATIAL ORIENTATION

SPATIAL DISTRIBUTION  
 SPATIAL ORIENTATION  
 USE ATTITUDE (INCLINATION)  
 SPECIES DIFFUSION  
 0404  
 BT #DIFFUSION  
 SPECIFIC HEAT  
 0603 1408 3203  
 UP DEBYE TEMPERATURE  
 HEAT CAPACITY  
 NT HEAT OF DISSOCIATION  
 HEAT OF SOLUTION  
 BT #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT ENTHALPY  
 EQUIPARTITION THEOREM  
 GRUNEISEN CONSTANT  
 HEAT BUDGET  
 ION TEMPERATURE  
 LEWIS NUMBERS  
 MELTING POINTS  
 NEEL TEMPERATURE  
 THERMAL CONDUCTIVITY  
 THERMAL RESISTANCE  
 SPECIFIC IMPULSE  
 2702 2806 3106  
 RT IMPULSES  
 MASS FLOW RATE  
 PROPELLANT MASS RATIO  
 #PROPELLANTS  
 PROPULSION SYSTEM PERFORMANCE  
 PROPULSIVE EFFICIENCY  
 ROCKET PROPELLANTS  
 ROCKET THRUST  
 THERMODYNAMIC EFFICIENCY  
 #THRUST  
 SPECIFICATIONS  
 3406  
 NT AIRCRAFT SPECIFICATIONS  
 EQUIPMENT SPECIFICATIONS  
 RT AIRCRAFT PERFORMANCE  
 DRAWINGS  
 INSPECTION  
 MAINTENANCE  
 MATERIALS TESTS  
 #MECHANICAL PROPERTIES  
 NAMING  
 PERFORMANCE TESTS  
 PROCUREMENT  
 QUALITY  
 QUALITY CONTROL  
 RELIABILITY  
 REQUIREMENTS  
 STANDARDIZATION  
 STANDARDS  
 TECHNICAL WRITING  
 TOLERANCES (MECHANICS)  
 SPECIMENS  
 0404 0405  
 RT SAMPLING  
 #SPECTRA  
 1411 2310 2311 2401 3001  
 UP OPTICAL SPECTRUM  
 VISIBLE SPECTRUM  
 NT ABSORPTION SPECTRA  
 ATOMIC SPECTRA  
 BALMER SERIES  
 D LINES  
 ELECTROMAGNETIC SPECTRA  
 ELECTRONIC SPECTRA  
 EMISSION SPECTRA  
 ENERGY SPECTRA  
 FRAUNHOFER LINES  
 H ALPHA LINE  
 H BETA LINE  
 H GAMMA LINE  
 H LINES  
 HERZBERG BANDS  
 INFRARED SPECTRA  
 K LINES  
 LINE SPECTRA  
 LYMAN SPECTRA  
 MASS SPECTRA  
 MICROWAVE SPECTRA  
 MOLECULAR SPECTRA  
 NEUTRON SPECTRA  
 NOISE SPECTRA  
 OXYGEN SPECTRA  
 PASCHEN SERIES  
 PHOTOLUMINESCENT BANDS  
 PLASMA SPECTRA  
 POWER SPECTRA

RADIATION SPECTRA  
 RADIO SPECTRA  
 RASAH SPECTRA  
 RYDBERG SERIES  
 SCHUMANN-RUNGE BANDS  
 SHOCK SPECTRA  
 SOLAR SPECTRA  
 SPECTRAL BANDS  
 STELLAR SPECTRA  
 SWAN BANDS  
 TELLURIC LINES  
 UVB SPECTRA  
 ULTRAVIOLET SPECTRA  
 VEGARD-KAPLAN BANDS  
 VIBRATIONAL SPECTRA  
 RT ASTRONOMICAL SPECTROSCOPY  
 COLOR  
 EXCITONS  
 FLUX DENSITY  
 SPECTRAL THEORY  
 SPECTROGRAMS  
 SPECTROMETERS  
 #SPECTROSCOPY  
 SPECTRUM ANALYSIS  
 TRANSITION PROBABILITIES  
 SPECTRAL ABSORPTION  
 USE ABSORPTION SPECTRA  
 SPECTRAL ANALYSIS  
 USE SPECTRUM ANALYSIS  
 SPECTRAL BANDS  
 0603 1411 2306 2402  
 NT ABSORPTION SPECTRA  
 FRAUNHOFER LINES  
 HERZBERG BANDS  
 PHOTOLUMINESCENT BANDS  
 SCHUMANN-RUNGE BANDS  
 SWAN BANDS  
 TELLURIC LINES  
 VEGARD-KAPLAN BANDS  
 BT #SPECTRA  
 RT BANDS  
 ELECTRONIC SPECTRA  
 ENERGY BANDS  
 #FREQUENCIES  
 LINE SPECTRA  
 SPECTRAL ENERGY DISTRIBUTION  
 WHITE NOISE  
 SPECTRAL CORRELATION  
 0601 1411 2306 2309 2310 2402  
 RT SPECTRAL RECONNAISSANCE  
 SPECTRAL EMISSION  
 1411 2306 2402 2403  
 BT #DECAY  
 EMISSION  
 RT #ELECTROMAGNETIC RADIATION  
 EMISSION  
 INCANDESCENCE  
 LIGHT EMISSION  
 LINE SPECTRA  
 NONGRAY GAS  
 RADIATION  
 SPECTROGRAMS  
 #SPECTROSCOPY  
 SPECTRUM ANALYSIS  
 SPONTANEOUS EMISSION  
 WAVELENGTHS  
 SPECTRAL ENERGY DISTRIBUTION  
 0601 1411 2306 2402  
 BT #DISTRIBUTION (PROPERTY)  
 ENERGY DISTRIBUTION  
 RT DISTRIBUTION  
 #ELECTROMAGNETIC RADIATION  
 ENERGY SPECTRA  
 FINE STRUCTURE  
 LINE SPECTRA  
 SPECTRAL BANDS  
 SPECTRAL LINE WIDTH  
 SPECTRAL RESOLUTION  
 SPECTRAL LINE WIDTH  
 0601 1411 2306 2402  
 BT BANDWIDTH  
 RT LINE SPECTRA  
 SPECTRAL ENERGY DISTRIBUTION  
 SPECTRAL RESOLUTION  
 SPECTRAL LINES  
 USE LINE SPECTRA  
 SPECTRAL NOISE  
 USE WHITE NOISE  
 SPECTRAL RECONNAISSANCE  
 1411 2310 2402  
 BT RECONNAISSANCE  
 RT EARTH RESOURCES

# NASA THESAURUS (ALPHABETICAL LISTING)

ELECTROMAGNETIC SPECTRA  
 MULTISPECTRAL BAND SCANNERS  
 MULTISPECTRAL PHOTOGRAPHY  
 PHOTORECONNAISSANCE  
 RADAR PHOTOGRAPHY  
 SATELLITE-BORNE PHOTOGRAPHY  
 SPECTRAL CORRELATION  
 SPECTRAL SIGNATURES  
 SPECTROPHOTOGRAPHY  
 SPECTRAL REFLECTANCE  
 1411 2310 2402  
 BT #SURFACE PROPERTIES  
 RT ELECTROMAGNETIC PROPERTIES  
 SPECTRAL SIGNATURES  
 SPECTROMETERS  
 #SPECTROSCOPY  
 SPECTRUM ANALYSIS  
 ULTRAVIOLET REFLECTION  
 SPECTRAL RESOLUTION  
 1411 2306 2310 2402  
 RT ANALOG COMPUTERS  
 LINE SPECTRA  
 Q FACTORS  
 RADAR RESOLUTION  
 SPECTRAL ENERGY DISTRIBUTION  
 SPECTRAL LINE WIDTH  
 SPECTRUM ANALYSIS  
 SPECTRAL SHIFT CONTROL REACTOR  
 2203 2204  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 PRESSURIZED WATER REACTORS  
 WATER COOLED REACTORS  
 SPECTRAL SIGNATURES  
 0705 1411 2310 2402  
 BT #SIGNATURES  
 RT CHEMICAL ANALYSIS  
 CHEMICAL COMPOSITION  
 EMISSION SPECTRA  
 IDENTIFYING  
 #OPTICAL MEASUREMENT  
 SPECTRAL RECONNAISSANCE  
 SPECTRAL REFLECTANCE  
 SPECTRUM ANALYSIS  
 SPECTRAL THEORY  
 1902 1905  
 RT LYMAN SPECTRA  
 #SPECTRA  
 THEORIES  
 SPECTROGRAMS  
 1411 2402  
 RT LINE SPECTRA  
 #SPECTRA  
 SPECTRAL EMISSION  
 SPECTROPHOTOGRAPHY  
 #SPECTROSCOPY  
 SPECTRUM ANALYSIS  
 SPECTROGRAMS  
 USE SPECTROMETERS  
 SPECTROHELIOGRAPHS  
 1411 2902  
 UP HELIOGRAPHS  
 HELIOGRAPHY  
 SPECTROHELIOSCOPES  
 BT #IMAGERY  
 SOLAR INSTRUMENTS  
 SPECTROMETERS  
 RT BLACK AND WHITE PHOTOGRAPHY  
 CORONAGRAPH  
 SOLAR SPECTROMETERS  
 SPECTROHELIOSCOPES  
 USE SPECTROHELIOGRAPHS  
 SPECTROMETERS  
 1406 2311 1411  
 UP SCINTILLATION SPECTROMETERS  
 SPECTROGRAMS  
 SPECTROMETRY  
 SPECTROSCOPES  
 NT EBERT SPECTROMETERS  
 FABRY-PEROT SPECTROMETERS  
 INFRARED SPECTROMETERS  
 MASS SPECTROMETERS  
 NEUTRON SPECTROMETERS  
 SOLAR SPECTROMETERS  
 SPECTROHELIOGRAPHS  
 TIME OF FLIGHT SPECTROMETERS  
 ULTRAVIOLET SPECTROMETERS  
 BT #MEASURING INSTRUMENTS  
 RT ACTINOMETERS  
 CHEMICAL ANALYSIS  
 DIFFRACTOMETERS  
 ELECTRON PROBES

# NASA THESAURUS (ALPHABETICAL LISTING)

GONIOMETERS  
 INFRARED SPECTROSCOPY  
 MICHELSON INTERFEROMETERS  
 #OPTICAL EQUIPMENT  
 #OPTICAL MEASUREMENT  
 PHOTOCONDUCTORS  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOHETERS  
 RADIATION COUNTERS  
 SOLAR INSTRUMENTS  
 #SPECTRA  
 SPECTRAL REFLECTANCE  
 SPECTRORADIOMETERS  
 SPECTROSCOPIC ANALYSIS  
 #SPECTROSCOPY  
 SPECTRUM ANALYSIS  
 SPECTROMETRY  
 USE SPECTROMETERS  
 SPECTROPHOTOGRAPHY  
 1407 1411 2310  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 #SPECTROSCOPY  
 RT BLACK AND WHITE PHOTOGRAPHY  
 GROUND TRUTH  
 SPECTRAL RECONNAISSANCE  
 SPECTROGRAMS  
 SPECTROPHOTOMETERS  
 1411 2306  
 NT INFRARED SPECTROPHOTOMETERS  
 ULTRAVIOLET SPECTROPHOTOMETERS  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT CHEMICAL ANALYSIS  
 DUOCHROMATORS  
 MONOCHROMATORS  
 #OPTICAL MEASUREMENT  
 PHOTOMETERS  
 RADIOMETERS  
 SPECTRORADIOMETERS  
 SPECTROSCOPIC ANALYSIS  
 #SPECTROSCOPY  
 SPECTROPHOTOMETRY  
 1411 2306  
 NT STELLAR SPECTROPHOTOMETRY  
 BT #OPTICAL MEASUREMENT  
 PHOTOMETRY  
 #SPECTROSCOPY  
 RT ASTRONOMICAL PHOTOMETRY  
 COLORIMETRY  
 SPECTROSCOPIC ANALYSIS  
 SPECTRORADIOMETERS  
 1411 2306 2402 2902 2903  
 BT ACTINOMETERS  
 #MEASURING INSTRUMENTS  
 RADIATION MEASURING INSTRUMENTS  
 RADIOMETERS  
 RT SPECTROMETERS  
 SPECTROPHOTOMETERS  
 SPECTROSCOPES  
 USE SPECTROMETERS  
 SPECTROSCOPIC ANALYSIS  
 0601 1411  
 (USE OF SPECTROSCOPIC TOOLS IN  
 CHEMICAL ANALYSIS)  
 BT CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 #SPECTROSCOPY  
 RT AURORAL SPECTROSCOPY  
 ELECTROPHOTOMETRY  
 FRAUNHOFER LINE DISCRIMINATORS  
 GAS SPECTROSCOPY  
 INFRARED SPECTROSCOPY  
 MAGNETIC SPECTROSCOPY  
 MASS SPECTROSCOPY  
 MICROANALYSIS  
 MOLECULAR SPECTROSCOPY  
 NEUTRON ACTIVATION ANALYSIS  
 NUCLEAR RADIATION SPECTROSCOPY  
 QUALITATIVE ANALYSIS  
 QUANTITATIVE ANALYSIS  
 RAMAN SPECTROSCOPY  
 SPECTROMETERS  
 SPECTROPHOTOMETERS  
 SPECTROPHOTOMETRY  
 ULTRAVIOLET SPECTROSCOPY  
 VACUUM SPECTROSCOPY  
 X RAY SPECTROSCOPY  
 SPECTROSCOPIC TELESCOPES  
 1411 1412 3001  
 UP DIFFRACTION TELESCOPES

NT MULTISPECTRAL TRACKING TELESCOPES  
 STRATOSCOPE TELESCOPES  
 BT ASTRONOMICAL TELESCOPES  
 #OPTICAL EQUIPMENT  
 #TELESCOPES  
 RT ASTRONOMICAL SPECTROSCOPY  
 REFLECTING TELESCOPES  
 REFRACTING TELESCOPES  
 STELLAR SPECTROPHOTOMETRY  
 #SPECTROSCOPY  
 1411  
 NT ABSORPTION SPECTROSCOPY  
 ASTRONOMICAL SPECTROSCOPY  
 AURORAL SPECTROSCOPY  
 GAS SPECTROSCOPY  
 INFRARED SPECTROSCOPY  
 MAGNETIC SPECTROSCOPY  
 MASS SPECTROSCOPY  
 MOLECULAR SPECTROSCOPY  
 NUCLEAR RADIATION SPECTROSCOPY  
 OPTICAL EMISSION SPECTROSCOPY  
 RADIO SPECTROSCOPY  
 RAMAN SPECTROSCOPY  
 SPECTROPHOTOGRAPHY  
 SPECTROPHOTOMETRY  
 SPECTROSCOPIC ANALYSIS  
 STELLAR SPECTROPHOTOMETRY  
 ULTRAVIOLET SPECTROSCOPY  
 VACUUM SPECTROSCOPY  
 X RAY SPECTROSCOPY  
 CHEMICAL ANALYSIS  
 CINESPECTROGRAPHS  
 COLORIMETRY  
 ELECTROPHOTOMETRY  
 FRAUNHOFER LINE DISCRIMINATORS  
 LALLEMAND CAMERAS  
 OPTICS  
 PHOTOMETRY  
 PRESSURE BROADENING  
 #SPECTRA  
 SPECTRAL EMISSION  
 SPECTRAL REFLECTANCE  
 SPECTROGRAMS  
 SPECTROMETERS  
 SPECTROPHOTOMETERS  
 SPECTRUM ANALYSIS  
 TIME OF FLIGHT SPECTROMETERS  
 ZEEMAN EFFECT  
 SPECTRUM ANALYSIS  
 0601 1411 2306 2310 2402 3001  
 UP SPECTRAL ANALYSIS  
 RT ABSORPTION SPECTRA  
 ANALYZING  
 EMISSION SPECTRA  
 FREQUENCY ANALYZERS  
 FREQUENCY SCANNING  
 HYPERFINE STRUCTURE  
 LINE SPECTRA  
 MAGNETIC RESONANCE  
 OPTICAL RESONANCE  
 SIGNAL ANALYSIS  
 #SPECTRA  
 SPECTRAL EMISSION  
 SPECTRAL REFLECTANCE  
 SPECTRAL RESOLUTION  
 SPECTRAL SIGNATURES  
 SPECTROGRAMS  
 SPECTROMETERS  
 #SPECTROSCOPY  
 STARK EFFECT  
 TOROIDAL DISCHARGE  
 ULTRAVIOLET SPECTROSCOPY  
 ZEEMAN EFFECT  
 SPECTRAL REFLECTION  
 2306 2310 2402  
 BT REFLECTION  
 RT DIFFUSE RADIATION  
 GLARE  
 MIRRORS  
 #SPEECH  
 0404 0408 0410 0702  
 NT ARTICULATION  
 CONVERSATION  
 PHONEMS  
 PHONETICS  
 SYLLABLES  
 TALKING  
 WORDS (LANGUAGE)  
 RT ACOUSTICS  
 AUDITORY PERCEPTION  
 CONSONANTS (SPEECH)  
 ENGLISH LANGUAGE

# SPEET REACTORS

#LANGUAGES  
 LECTURES  
 #LINGUISTICS  
 PHONEMICS  
 SEMANTICS  
 SENTENCES  
 SYNTAX  
 VOICE  
 VOICE COMMUNICATION  
 SPEECH DEFECTS  
 0405 0408  
 BT #DEFECTS  
 RT ARTICULATION  
 PHONEMICS  
 PHONETICS  
 SPEECH DISCRIMINATION  
 USE SPEECH RECOGNITION  
 SPEECH RECOGNITION  
 0405 0408 2301  
 UP SPEECH DISCRIMINATION  
 BT INTELLIGIBILITY  
 #RECOGNITION  
 RT PHONEMS  
 PHONEMICS  
 PHONETICS  
 SENSORY DISCRIMINATION  
 SPEED  
 USE VELOCITY  
 SPEED BRAKES  
 USE #BRAKES (FOR ARRESTING MOTION)  
 SPEED CONTROL  
 0102 0203  
 UP SPEED REGULATION  
 RT #AUTOMATIC CONTROL  
 CONTROL  
 CONTROL EQUIPMENT  
 #CONTROLLERS  
 ENGINE CONTROL  
 HELICOPTER CONTROL  
 MANUAL CONTROL  
 #REGULATORS  
 SPEED REGULATORS  
 SPEED INDICATORS  
 1402 1410 2104  
 UP PITOT STATIC TUBES  
 PRESTON TUBES  
 SPEEDOMETERS  
 VELOCITY PROBES  
 NT ANEMOMETERS  
 HOT-FILM ANEMOMETERS  
 HOT-WIRE ANEMOMETERS  
 SONIC ANEMOMETERS  
 TACHOMETERS  
 BT #AIRCRAFT INSTRUMENTS  
 #DISPLAY DEVICES  
 INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 ACCELEROMETERS  
 APPROACH INDICATORS  
 #FLIGHT INSTRUMENTS  
 FLOWMETERS  
 LANDING INSTRUMENTS  
 PITOT TUBES  
 VELOCITY MEASUREMENT  
 SPEED REGULATION  
 USE SPEED CONTROL  
 SPEED REGULATORS  
 0202 0203 2801  
 UP GOVERNORS  
 BT CONTROL EQUIPMENT  
 #REGULATORS  
 RT #CONTROLLERS  
 #ENGINES  
 SPEED CONTROL  
 SPEEDOMETERS  
 USE SPEED INDICATORS  
 SPERMATOCYTES  
 USE GAMETOCYTES  
 SPERMATOGENESIS  
 0404 0405  
 RT GAMETOCYTES  
 SPERMATOZOIA  
 0402 0404  
 RT SPERMATOGENESIS  
 SPEET REACTORS  
 2203 2204  
 BT BOILING WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS

# SPHALERITE

SPHALERITE  
USE ZINCBLLENDE  
SPHERES  
1902  
BT CELESTIAL SPHERE  
FALLING SPHERES  
POINCARÉ SPHERES  
ROTATING SPHERES  
BT BODIES OF REVOLUTION  
#SYMMETRICAL BODIES  
BT AERODYNAMIC CONFIGURATIONS  
ASPHERICITY  
BALLS  
CIRCLES (GEOMETRY)  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
GLOBES  
GLOBULES  
HEMISPHERES  
HEMISPHERICAL SHELLS  
NODULES  
OGIVES  
SPHERICAL SHELLS  
SPHEROIDS  
SPHERULES  
SPHERICAL ANTENNAS  
0701 0705 0905  
BT ANTENNAS  
BT #COMMUNICATION EQUIPMENT  
#ELECTRONIC EQUIPMENT  
SPHERICAL CAPS  
1501 3202 3203 3305  
BT #SHELLS (STRUCTURAL FORMS)  
SPHERICAL SHELLS  
BT CAPS  
COVERINGS  
NOSE CONES  
SEALS (STOPPERS)  
SPHERICAL HARMONICS  
1307 1901 1902 3001 3006  
BT #ANALYSIS (MATHEMATICS)  
COMPLEX VARIABLES  
#FUNCTIONS (MATHEMATICS)  
HARMONICS  
BT LEGENDRE FUNCTIONS  
SPHERICAL SHELLS  
0102 3202 3203  
NT SPHERICAL CAPS  
BT #SHELLS (STRUCTURAL FORMS)  
BT BODIES OF REVOLUTION  
CIRCULAR SHELLS  
HEMISPHERICAL SHELLS  
METAL SHELLS  
REINFORCED SHELLS  
ROTATING SPHERES  
SPHERES  
SPHERICAL TANKS  
STRESSED-SKIN STRUCTURES  
THIN WALLED SHELLS  
SPHERICAL TANKS  
2802 2806  
BT #TANKS (CONTAINERS)  
BT FUEL TANKS  
PRESSURE VESSELS  
PROPELLANT TANKS  
SPHERICAL SHELLS  
STORAGE TANKS  
SPHERICAL WAVES  
0710 1202  
BT CYLINDRICAL WAVES  
DIFFRACTION PATHS  
DIFFRACTION PROPAGATION  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
HUYGENS PRINCIPLE  
PLANE WAVES  
POINT SOURCES  
THREE DIMENSIONAL FLOW  
WAVES  
SPHEROIDS  
1902  
NT OBLATE SPHEROIDS  
PROLATE SPHEROIDS  
BT ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
BT FALLING SPHERES  
GEOIDS  
SPHERES  
SPHERULES  
1806 2601  
BT SPHERULITES

BT #CRYSTALS  
SPHERES  
SPHERULITES  
1806 2601  
BT CRYSTALLITES  
#CRYSTALS  
SPHERULES  
BT CRYSTAL STRUCTURE  
MICROCRYSTALS  
MICROSTRUCTURE  
NODULES  
ROSETTE SHAPES  
SPHYGMOGRAPHY  
0501 1408  
BT ARTERIES  
BIOINSTRUMENTATION  
BLOOD PRESSURE  
HEART RATE  
MEASUREMENT  
#RECORDING INSTRUMENTS  
SPICULES  
0402 0404 2902  
BT SOLAR ACTIVITY  
BT CHROMOSPHERE  
PHOTOSPHERE  
SOLAR ATMOSPHERE  
SPIDERS  
0402  
BT #ANIMALS  
ARTHROPODS  
INVERTEBRATES  
SPIKE ANTENNAS  
USE MONOPOLE ANTENNAS  
SPIKE NOZZLES  
0101 0102 1201 2806 2808  
BT EXHAUST NOZZLES  
BT CONICAL NOZZLES  
NOZZLE GEOMETRY  
NOZZLES  
PLUG NOZZLES  
ROCKET NOZZLES  
SPIKES  
SPIKE POTENTIALS  
0501 2304  
BT ELECTRIC POTENTIAL  
#POTENTIAL ENERGY  
BT BIOELECTRICITY  
DEPOLARIZATION  
SPIKES  
0101 0409 0901 1001 1002 1202 1308  
1507 3404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT #FASTENERS  
HOLDERS  
MONOPOLE ANTENNAS  
PINS  
SPIKE NOZZLES  
SPIKE POTENTIALS  
SPIKES (AERODYNAMIC CONFIGURATIONS)  
SPIKES (AERODYNAMIC CONFIGURATIONS)  
0101 0102  
BT SPIKES  
SPIRING  
1507 1704  
BT ELECTRON BEAM WELDING  
MELTING  
METAL CUTTING  
SPILLING  
1502 1504 3402  
BT DUMPING  
EMPTYING  
JETTING  
RELEASING  
SPREADING  
#SPIN  
0101 2102 2405  
NT ELECTRON CAPTURE  
ELECTRON SPIN  
HYDROSPINNING  
ISOTOPIC SPIN  
METAL SPINNING  
NUCLEAR SPIN  
PARTICLE SPIN  
SPIN-ORBIT INTERACTIONS  
SPIN-SPIN COUPLING  
BT ANGULAR MOMENTUM  
NUCLEAR CAPTURE  
SPINNERS  
YO-YO DEVICES

# NASA THESAURUS (ALPHABETICAL LISTING)

SPIN DECOUPLING  
2307 2401 2403 2405  
BT DECOUPLING  
BT PHOTOMAGNETIC EFFECTS  
SPIN-SPIN COUPLING  
SPIN DYNAMICS  
2307 2308 2403 2405  
BT ARTIFICIAL GRAVITY  
DYNAMIC TESTS  
DYNAMICS  
ELECTRON SPIN  
#GIRATION  
ROTATING MATTER  
SPIN-ORBIT INTERACTIONS  
SPIN TESTS  
SPIN EXCHANGE  
2401 2404 2405  
BT #EXCHANGING  
BT RESONANCE CHARGE EXCHANGE  
SPIN RESONANCE  
SPIN FORGING  
USE METAL SPINNING  
SPIN-LATTICE RELAXATION  
2307 2309 2405 2601  
BT #MAGNETIC PROPERTIES  
MAGNETIC RELAXATION  
BT LATTICE VIBRATIONS  
NUCLEAR MAGNETIC RESONANCE  
RELAXATION TIME  
SPIN-ORBIT INTERACTIONS  
2307 2404 2405  
NT ELECTRON CAPTURE  
BT NUCLEAR INTERACTIONS  
#NUCLEAR REACTIONS  
#PARTICLE INTERACTIONS  
#SPIN  
BT SPIN DYNAMICS  
SPIN REDUCTION  
0101 2102 2401 2403  
UP DESPINNING  
JET DAMPING  
BT ACCELERATION (PHYSICS)  
DECELERATION  
#RATES (PER TIME)  
BT ANGULAR ACCELERATION  
DESTABILIZATION  
GRAVITY GRADIENT SATELLITES  
REDUCTION  
SATELLITE ROTATION  
SPIN STABILIZATION  
YO-YO DEVICES  
SPIN RESONANCE  
2307 2401 2403 2404 2405  
BT #RESONANCE  
BT NUCLEAR MAGNETIC RESONANCE  
PARTICLE SPIN  
SPIN EXCHANGE  
SPIN-SPIN COUPLING  
2307 2404 2405  
BT COUPLING  
#SPIN  
BT COUPLES  
CROSS RELAXATION  
SPIN DECOUPLING  
SPIN STABILIZATION  
0101 2102 3006 3107  
BT STABILIZATION  
BT #ATTITUDE CONTROL  
DUAL SPIN SPACECRAFT  
#MISSILES  
OV-1 SATELLITES  
OV-2 SATELLITES  
OV-3 SATELLITES  
OV-4 SATELLITES  
OV-5 SATELLITES  
SATELLITE ORIENTATION  
SATELLITE ROTATION  
#SATELLITES  
SPACE STATIONS  
SPIN REDUCTION  
SPIN TESTS  
1108  
UP WHIRLING TESTS  
BT ANGULAR MOMENTUM  
DYNAMIC TESTS  
#ENVIRONMENTAL TESTS  
LOAD TESTS  
POLARIZATION (SPIN ALIGNMENT)  
SPIN DYNAMICS  
TESTS  
SPIN WAVES  
USE MAGNONS

# NASA THESAURUS (ALPHABETICAL LISTING)

SPINACH  
0409 0505  
BT VEGETABLES

SPIRAL CORD  
0404 0408 0505  
NT SPINE  
BT CENTRAL NERVOUS SYSTEM  
#NERVOUS SYSTEM  
RT BONES  
BRAIN

SPINDLES  
1504  
RT SHAFTS (MACHINE ELEMENTS)  
SPOOLS  
WINDING

SPIKE  
0404 0405  
BT CENTRAL NERVOUS SYSTEM  
#NERVOUS SYSTEM  
SPINAL CORD  
RT MUSCULOSKELETAL SYSTEM  
VERTEBRAE

SPINEL  
1806 2601  
BT #MINERALS  
RT ALUMINATES  
FERRITES  
IGNEOUS ROCKS

SPINNERS  
0701 0901 0905 1504  
RT DIRECTIONAL ANTENNAS  
RADAR ANTENNAS  
SLEWING  
#SPIN

SPINNING (METALLURGY)  
USE METAL SPINNING

SPINNING UNGUIDED ROCKET TRAJECTORY  
2102 3006  
UP SPURT (TRAJECTORIES)  
BT #TRAJECTORIES  
RT #EQUATIONS OF MOTION  
MISSILE TRAJECTORIES  
#ROTATING BODIES  
#SYMMETRICAL BODIES

SPINOR GROUPS  
1902 2403  
BT #ALGEBRA  
DIFFERENTIAL GEOMETRY  
#GEOMETRY  
LIE GROUPS

SPIRAL ANTENNAS  
0710 0901  
NT LOG SPIRAL ANTENNAS  
BT ANTENNAS  
#CONDUCTORS  
RT ANTENNA DESIGN  
BROADBAND  
TELEMETRY

SPIRAL GALAXIES  
3001 3002  
NT MILKY WAY GALAXY  
BT #CELESTIAL BODIES  
GALAXIES  
RT ANDROMEDA GALAXIES

SPIRAL WRAPPING  
1504 3203  
RT #COMPOSITE MATERIALS  
COMPOSITE WRAPPING  
ISOTENSOID STRUCTURES  
PACKAGING  
SPIRALS  
WINDING

SPIRALS  
1504 1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CURVES (GEOMETRY)  
SPIRAL WRAPPING  
SPIRALS (CONCENTRATORS)  
SPIRALS (CONCENTRATORS)  
0602  
BT #SEPARATORS  
RT CLASSIFIERS  
SPIRALS

SPIROMETERS  
0501 1203  
RT HEART MINUTE VOLUME  
LUNGS  
RESPIRATORY RATE

SPLASH POINTS  
USE RECOVERY ZONES

WATER LANDING

SPLASHING  
1504 3407  
UP SWASH  
RT AGITATION  
#SURFACE WAVES  
ULLAGE  
WATER LANDING

SPLEEN  
0405 0408  
BT #ANATOMY  
ORGANS  
#VISCERA  
RT POLYCYTHEMIA

SPLICING  
0702 0902 1504 3404  
RT #FASTENERS  
JOINING  
TAPES  
WIRING

SPLINE FUNCTIONS  
1902  
BT #FUNCTIONS (MATHEMATICS)  
RT APPROXIMATION  
MATRIX METHODS

SPLINES  
1504 3404  
RT COUPLINGS  
#FASTENERS  
HOLDERS

SPLINTS  
0405  
RT BONES  
CASTS  
FIRST AID

SPLIT FLAPS  
0102 0103 0104  
BT AERODYNAMIC BRAKES  
AIRCRAFT BRAKES  
#AIRFOILS  
#BRAKES (FOR ARRESTING MOTION)  
#CONTROL SURFACES  
#DRAG DEVICES  
FLAPS (CONTROL SURFACES)  
RT JET FLAPS  
LEADING EDGE SLATS  
TRAILING-EDGE FLAPS  
WING FLAPS

SPLITTING  
1504 2202 2401 2405 3404  
RT CHIPPING  
CUTTING  
FISSION  
FLAKING  
FRACTURING  
SEPARATION  
SLICING

SPODUMENE  
1806  
BT #ALUMINUM COMPOUNDS  
#CHALCOGENIDES  
#LITHIUM COMPOUNDS  
#MINERALS  
OXIDES  
SILICATES  
#SILICON COMPOUNDS  
SILICON OXIDES  
#SODIUM COMPOUNDS  
SODIUM SILICATES

SPOILER SLOT AILERONS  
0102 0104 0202  
BT AILERONS  
#AIRFOILS  
#CONTROL SURFACES  
RT SPOILERS

SPOILERS  
0102 0104 0202 1202  
BT #AIRFOILS  
#CONTROL SURFACES  
#DRAG DEVICES  
RT AERODYNAMIC BRAKES  
BOUNDARY LAYER CONTROL  
DEFLECTORS  
FLAPS (CONTROL SURFACES)  
GUST ALLEVIATORS  
LEADING EDGE SLATS  
SPOILER SLOT AILERONS  
WINGS

SPOKES  
1504 1902 3203  
RT HUBS  
#WHEELS

## SPRAY NOZZLES

SPONGES (MATERIALS)  
0402 0505  
(ORGANIC OPEN-CELL STRUCTURES)  
RT POROUS MATERIALS

SPONTANEOUS COMBUSTION  
3301 3302  
UP SPONTANEOUS IGNITION TEMPERATURE  
BT #COMBUSTION  
RT COMBUSTION TEMPERATURE  
#EXPLOSIONS  
FIRE POINT  
FIRE PREVENTION  
FLAMMABILITY  
FLASH POINT  
FUEL COMBUSTION  
#HAZARDS  
HYPERGOLIC ROCKET PROPELLANTS  
IGNITION  
IGNITION TEMPERATURE  
PROPELLANT SENSITIVITY  
PYROPHORIC MATERIALS

SPONTANEOUS EMISSION  
1601 2310 2402 2502  
BT EMISSION  
RT ATOMIC ENERGY LEVELS  
#ELECTROMAGNETIC RADIATION  
EMISSION SPECTRA  
SPECTRAL EMISSION

SPONTANEOUS IGNITION TEMPERATURE  
USE IGNITION TEMPERATURE  
SPONTANEOUS COMBUSTION

SPOOLS  
1504  
RT CONTAINERS  
INSERTS  
MAGAZINES (SUPPLY CHAMBERS)  
REELS  
SPINDLES

SPORADIC E LAYER  
1302  
BT E REGION  
#EARTH ATMOSPHERE  
IONOSPHERE  
RT E-1 LAYER  
E-2 LAYER  
E-3 LAYER  
MIDLATITUDE ATMOSPHERE

SPORADIC METEOROIDS  
3005  
(METEOROIDS NOT ASSOCIATED WITH A  
METEOROID SHOWER OR STREAM)  
BT #CELESTIAL BODIES  
METEOROIDS  
RT METEOR TRAILS  
METEOROID CONCENTRATION

SPORES  
0404 0407 0409  
NT MICROSPORES  
BT #ANIMALS  
FUNGI  
INVERTEBRATES  
#MICROORGANISMS  
#PLANTS (BOTANY)  
RT REPRODUCTION  
TETRAD THEORY

SPOT WELDS  
1507  
BT #JOINTS (JUNCTIONS)  
METAL JOINTS  
WELDED JOINTS  
RT ARC WELDING  
ELECTRIC WELDING  
FUSION WELDING  
PRESSURE WELDING  
ULTRASONIC WELDING

SPRAY CHARACTERISTICS  
1201 1202  
RT CHARACTERISTICS  
SPRAYERS  
SPRAYING

SPRAY CONDENSERS  
1202 1203 1504  
RT JET CONDENSERS  
SPRAYERS

SPRAY NOZZLES  
1202 1203 1504  
RT ANNULAR NOZZLES  
CONICAL NOZZLES  
FUEL INJECTION  
FUEL SYSTEMS  
INJECTORS  
NOZZLES

# SPRAYED COATINGS

ORIFICES  
 SPRAYERS  
 SPRAYED COATINGS  
 1801 1802  
 UP SPRAYED PROTECTIVE COATINGS  
 BT #COATINGS  
 RT CERAMIC COATINGS  
 FINISHES  
 LACQUERS  
 METAL COATINGS  
 PAINTS  
 PLASMA SPRAYING  
 PLASTIC COATINGS  
 PRIMERS (COATINGS)  
 PROTECTIVE COATINGS  
 VARNISHES  
 SPRAYED PROTECTIVE COATINGS  
 USE PROTECTIVE COATINGS  
 SPRAYED COATINGS  
 SPRAYERS  
 1202 1204 1504  
 UP SPRAYING APPARATUS  
 SPRAYS  
 RT ATOMIZERS  
 BLOWERS  
 COLLOIDAL GENERATORS  
 CONTACTORS  
 CONTAINERS  
 DIFFUSERS  
 DISPENSERS  
 DISTRIBUTORS  
 DROPS (LIQUIDS)  
 EJECTORS  
 FUEL SPRAYS  
 JETS  
 MATERIALS HANDLING  
 MIXERS  
 NOZZLES  
 PROPELLANT SPRAYS  
 SPRAY CHARACTERISTICS  
 SPRAY CONDENSERS  
 SPRAY NOZZLES  
 SPRAYING  
 VAPORIZERS  
 SPRAYING  
 1201 1202  
 RT ARC SPRAYING  
 FLAME SPRAYING  
 METAL SPRAYING  
 PLASMA SPRAYING  
 RT ABRATION  
 AEROSOLS  
 ATOMIZING  
 BLOWING  
 COATING  
 #COATINGS  
 #DIFFUSION  
 DISPERSING  
 ENTRAINMENT  
 #FORMING TECHNIQUES  
 FUMIGATION  
 METALLIZING  
 MIXING  
 SEALING  
 SPRAY CHARACTERISTICS  
 SPRAYERS  
 SPRINKLING  
 VAPORIZING  
 WETTING  
 SPRAYING APPARATUS  
 USE SPRAYERS  
 SPRAYS  
 USE SPRAYERS  
 SPREAD P  
 1302 2306  
 RT P 2 REGION  
 IONOSPHERIC STORMS  
 MAGNETIC STORMS  
 SPREAD REFLECTION  
 USE DIFFUSE RADIATION  
 REFLECTION  
 SPREADING  
 1204 2306 2310  
 RT ADHESION  
 COHESION  
 #DIFFUSION  
 DISPERSING  
 DISPOSAL  
 DUMPING  
 EMPTYING  
 INTERFACIAL TENSION  
 INTERNAL PRESSURE

MATERIALS HANDLING  
 #SCATTERING  
 SEPARATION  
 SPILLING  
 SWELLING  
 THROWING  
 UNLOADING  
 SPRINGS (ELASTIC)  
 1504 2308  
 RT COILS  
 ENERGY STORAGE  
 FRAMES  
 OSCILLATION DAMPERS  
 #OSCILLATIONS  
 RESILIENCE  
 SHOCK ABSORBERS  
 SUSPENSION SYSTEMS (VEHICLES)  
 VIBRATION ISOLATORS  
 SPRINKLING  
 3407  
 BT #SCATTERING  
 SPRAYING  
 WETTING  
 SPRINT MISSILE  
 3101 3401  
 BT ANTIMISSILE MISSILES  
 #MISSILES  
 SURFACE TO AIR MISSILES  
 RT NIKE-ZEUS MISSILE  
 SENTINEL SYSTEM  
 SOLID PROPELLANT ROCKET ENGINES  
 SPUR (REACTORS)  
 USE SPACE POWER UNIT REACTORS  
 SPURRITE  
 1306 1806 2601  
 BT CALCIUM CARBONATES  
 #CALCIUM COMPOUNDS  
 CALCIUM SILICATES  
 #CARBON COMPOUNDS  
 CARBONATES  
 #MINERALS  
 SILICATES  
 #SILICON COMPOUNDS  
 #SODIUM COMPOUNDS  
 SODIUM SILICATES  
 SPORT (TRAJECTORIES)  
 USE SPINNING UNGUIDED ROCKET TRAJECTORY  
 SPUTNIK 1 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 SPUTNIK SATELLITES  
 SPUTNIK 2 SATELLITE  
 3107 3409  
 BT ARTIFICIAL SATELLITES  
 BIOSATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 SPUTNIK SATELLITES  
 SPUTNIK 3 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 SPUTNIK SATELLITES  
 SPUTNIK 4 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPUTNIK SATELLITES  
 RT VENUS PROBES  
 SPUTNIK 6 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 BIOSATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPUTNIK 7 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES

# NASA TREASURY (ALPHABETICAL LISTING)

BIOSATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPUTNIK SATELLITES  
 SPUTNIK 8 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPUTNIK SATELLITES  
 RT VENUS PROBES  
 SPUTNIK SATELLITES  
 3107  
 RT SPUTNIK 1 SATELLITE  
 SPUTNIK 2 SATELLITE  
 SPUTNIK 3 SATELLITE  
 SPUTNIK 4 SATELLITE  
 SPUTNIK 5 SATELLITE  
 SPUTNIK 7 SATELLITE  
 SPUTNIK 8 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPUTTERING  
 0604 1002 1504 1704 2501 2502 3404  
 RT ARC WELDING  
 BOMBARDMENT  
 #DEPOSITION  
 DUOPLASMATRON  
 ELECTRON BOMBARDMENT  
 EMISSION  
 #ION SOURCES  
 METAL PARTICLES  
 SURFACE FINISHING  
 THERMAL INSTABILITY  
 SPUTTERING GAGES  
 0905 1002 1406  
 BT #MEASURING INSTRUMENTS  
 RT METAL FILMS  
 THIN FILMS  
 SQUALLS  
 2001 2003  
 BT #WIND (METEOROLOGY)  
 RT GROUND WIND  
 STORMS (METEOROLOGY)  
 SQUARE WAVES  
 2304 2309 2311  
 BT WAVEFORMS  
 RT FORM FACTORS  
 PULSE AMPLITUDE  
 PULSE DURATION  
 SAWTOOTH WAVEFORMS  
 TIME FUNCTIONS  
 WAVE FUNCTIONS  
 WAVE PROPAGATION  
 WAVES  
 SQUARES (MATHEMATICS)  
 1902  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYGONS  
 TETRAGONS  
 SQUEEZING  
 USE COMPRESSING  
 SQUELCH CIRCUITS  
 0701 0702 0705 0902  
 BT #CIRCUITS  
 RT BACKGROUND NOISE  
 ELECTROMAGNETIC NOISE  
 NOISE REDUCTION  
 SILENCERS  
 SUPPRESSORS  
 SWITCHING CIRCUITS  
 SQUIBS  
 2806 2808 3301 3302  
 UP IN-6 SQUIB  
 IN-8 SQUIB  
 BT #IGNITERS  
 RT ELECTRIC IGNITION  
 IGNITION SYSTEMS  
 PRIMERS (EXPLOSIVES)  
 SOLID PROPELLANT IGNITION  
 STARTERS  
 SQUID PROJECT  
 2805  
 BT #PROGRAMS  
 PROJECTS  
 RT JET PROPULSION  
 SQUIRRELS  
 0402  
 BT #ANIMALS  
 MAMMALS

# NASA THESAURUS (ALPHABETICAL LISTING)

RODENTS  
 VERTEBRATES  
 SB (REACTORS)  
 USE SATURABLE REACTORS  
 SR-N2 GROUND EFFECT MACHINE  
 USE WESTLAND GROUND EFFECT MACHINES  
 SR-N3 GROUND EFFECT MACHINE  
 USE WESTLAND GROUND EFFECT MACHINES  
 SR-N5 GROUND EFFECT MACHINE  
 USE WESTLAND GROUND EFFECT MACHINES  
 SRE REACTOR  
 USE SODIUM REACTOR EXPERIMENT  
 SS-11 MISSILE  
 3101 3401  
 BT #MISSILES  
 RT MULTISTAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
 SSGS (STANDARDIZED SPACE GUIDANCE)  
 USE STANDARDIZED SPACE GUIDANCE  
 ST VENANT FLEXURE PROBLEM  
 USE SAINT VENANT PRINCIPLE  
 #STABILITY  
 0101 0201 0408 2102 2311 2701 3408  
 UP CONTROLLED STABILITY  
 INSTABILITY  
 NT ACOUSTIC INSTABILITY  
 AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 ATTITUDE STABILITY  
 BOUNDARY LAYER STABILITY  
 COMBUSTION STABILITY  
 CONTROL STABILITY  
 DIMENSIONAL STABILITY  
 DIRECTIONAL STABILITY  
 DYNAMIC STABILITY  
 FLAME STABILITY  
 FLOW STABILITY  
 FREQUENCY STABILITY  
 GYROSCOPIC STABILITY  
 HOVERING STABILITY  
 LATERAL STABILITY  
 LONGITUDINAL STABILITY  
 LOW SPEED STABILITY  
 MAGNETOHYDRODYNAMIC STABILITY  
 MAGNETOSPHERIC INSTABILITY  
 MOTION STABILITY  
 ROTARY STABILITY  
 SHELL STABILITY  
 SPACECRAFT STABILITY  
 STATIC STABILITY  
 STORAGE STABILITY  
 STRUCTURAL STABILITY  
 SURFACE STABILITY  
 SYSTEMS STABILITY  
 THERMAL STABILITY  
 RT AMPLIFICATION  
 BALLAST (MASS)  
 COMPATIBILITY  
 CONTROLLABILITY  
 DRIFT  
 DRIFT RATE  
 DURABILITY  
 #DYNAMIC CHARACTERISTICS  
 #EQUATIONS OF MOTION  
 EQUILIBRIUM  
 METASTABLE STATE  
 QUALITY  
 RELIABILITY  
 RESISTANCE  
 SAFETY FACTORS  
 SPACECRAFT MOTION  
 STABILIZERS (AGENTS)  
 STEADY STATE  
 TOLERANCES (MECHANICS)  
 TRESCA FLOW  
 UNITY  
 UNSTEADY STATE  
 VARIABILITY  
 VLASOV EQUATIONS  
 VULNERABILITY  
 STABILITY AUGMENTATION  
 USE FEEDBACK CONTROL  
 STABILIZATION  
 STABILITY DERIVATIVES  
 0101 0104 1902 2308  
 UP AERODYNAMIC MOMENTS  
 NT PITCHING MOMENTS  
 ROLLING MOMENTS  
 YAWING MOMENTS  
 BT #MOMENTS  
 RT COMPLEX VARIABLES  
 DAMPING

DIFFERENTIAL EQUATIONS  
 MOMENTS OF INERTIA  
 REAL VARIABLES  
 VECTOR ANALYSIS  
 STABILITY TESTS  
 1108 1110 2702  
 NT FLIGHT STABILITY TESTS  
 WIND TUNNEL STABILITY TESTS  
 RT CORROSION TESTS  
 DAMPING TESTS  
 ELECTRONIC EQUIPMENT TESTS  
 FLIGHT TESTS  
 FUEL TESTS  
 #GROUND TESTS  
 MISSILE TESTS  
 PROPELLANT TESTS  
 RESONANCE TESTING  
 TESTS  
 #VIBRATION TESTS  
 STABILIZATION  
 3407  
 UP MISSILE STABILIZATION  
 STABILITY AUGMENTATION  
 NT SIGNAL STABILIZATION  
 SPIN STABILIZATION  
 RT ACID BASE EQUILIBRIUM  
 BALANCING  
 CONSOLIDATION  
 CONTROL  
 EQUILIBRIUM  
 #HEAT TREATMENT  
 STABILIZERS (AGENTS)  
 STRESS RELIEVING  
 STABILIZED PLATFORMS  
 1403 1410 2102  
 RT GIMBALS  
 GYROSCOPIC STABILITY  
 GYROSTABILIZERS  
 INERTIAL GUIDANCE  
 PLATFORMS  
 STABILIZERS  
 0104 0202 1402 1403 1410  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #GYROSCOPES  
 STABILIZERS (AGENTS)  
 STABILIZERS (FLUID DYNAMICS)  
 STABILIZERS (AGENTS)  
 0602 3404  
 RT #ADDITIVES  
 AGENTS  
 ANTICOAGULANTS  
 ANTIOXIDANTS  
 NEUTRALIZERS  
 PRESERVATIVES  
 RETARDANTS  
 #STABILITY  
 STABILIZATION  
 STABILIZERS  
 STABILIZERS (FLUID DYNAMICS)  
 0104 0202 1202  
 UP FIN STABILIZERS  
 HORIZONTAL STABILIZERS  
 VERTICAL STABILIZERS  
 VERTICAL TAILS  
 NT HORIZONTAL TAIL SURFACES  
 RT AERIAL RUDDERS  
 #AIRFOILS  
 #CONTROL SURFACES  
 ELEVATORS (CONTROL SURFACES)  
 FINS  
 KEELS  
 RUDDERS  
 STABILIZERS  
 SWEEPBACK TAIL SURFACES  
 T TAIL SURFACES  
 TABS (CONTROL SURFACES)  
 TAIL ASSEMBLIES  
 TAIL SURFACES  
 TRAPEZOIDAL TAIL SURFACES  
 STABLE OSCILLATIONS  
 0101 0710 1002 2309  
 BT #OSCILLATIONS  
 RT DYNAMIC STABILITY  
 FREQUENCY STABILITY  
 GYROSCOPIC STABILITY  
 MOTION STABILITY  
 NONSTABILIZED OSCILLATION  
 RESONANT VIBRATION  
 TRANSVERSE OSCILLATION  
 UNDAMPED OSCILLATIONS

## STAINING

RING OSCILLATIONS  
 STACKING FAULT ENERGY  
 2601 3203  
 RT CRYSTAL DEFECTS  
 ENERGY  
 TWINNING  
 STACKING FAULTS  
 USE CRYSTAL DEFECTS  
 STACKS  
 2401 2601  
 RT CHIMNEYS  
 CRYSTAL DEFECTS  
 MATERIALS HANDLING  
 STADAN (SATELLITE TRACKING NETWORK)  
 0709  
 UP SATELLITE TRACKING AND DATA ACQ  
 NETWORK  
 BT GROUND STATIONS  
 #STATIONS  
 TRACKING STATIONS  
 DATA ACQUISITION  
 RT GLOBAL TRACKING NETWORK  
 MINITRACK SYSTEM  
 OPTICAL TRACKING  
 RANGE AND RANGE RATE TRACKING  
 SATELLITE TRACKING  
 SPACE DETECTION AND TRACKING SYSTEM  
 STADIMETERS  
 1406  
 BT DISTANCE MEASURING EQUIPMENT  
 #MEASURING INSTRUMENTS  
 RT RANGE FINDERS  
 SEIXANTS  
 STAGE SEPARATION  
 2802 2806 3009 3106  
 UP MISSILE STAGING  
 STAGING (ROCKETS)  
 RT BOOSTER ROCKET ENGINES  
 LUNAR MODULE ASCENT STAGE  
 #MISSILES  
 MULTISTAGE ROCKET VEHICLES  
 PROPELLANT MASS RATIO  
 #ROCKET VEHICLES  
 SEPARATION  
 SUSTAINER ROCKET ENGINES  
 THRUST TERMINATION  
 STAGGERING  
 0101 0702 0703 3203  
 RT CONFIGURATIONS  
 DISORIENTATION  
 STAGING (ROCKETS)  
 USE STAGE SEPARATION  
 STAGNATION  
 USE STAGNATION POINT  
 STAGNATION FLOW  
 0101 1202 1203  
 BT #FLUID FLOW  
 INVISCID FLOW  
 RT BOUNDARY LAYER FLOW  
 BOUNDARY LAYER SEPARATION  
 COMPRESSIBLE FLOW  
 STAGNATION POINT  
 STAGNATION POINT  
 0101 1202 1203  
 UP STAGNATION  
 STAGNATION REGION  
 RT FLUID DYNAMICS  
 STAGNATION FLOW  
 STAGNATION PRESSURE  
 STAGNATION TEMPERATURE  
 STAGNATION PRESSURE  
 1202 1203 1408 2502  
 BT #PRESSURE  
 RT COMPRESSIBLE FLOW  
 INLET PRESSURE  
 STAGNATION POINT  
 STAGNATION TEMPERATURE  
 STAGNATION REGION  
 USE STAGNATION POINT  
 STAGNATION TEMPERATURE  
 1202 1203 1408  
 BT #TEMPERATURE  
 RT ADIABATIC FLOW  
 COMPRESSIBLE FLOW  
 INVISCID FLOW  
 STAGNATION POINT  
 STAGNATION PRESSURE  
 STAINING  
 0404 0405 0601  
 RT #CHEMICAL TESTS  
 DISCOLORATION  
 MARKING

# STAINLESS STEELS

METHYLENE BLUE  
 STAINLESS STEELS  
 1701 1704  
 NT AUSTENITIC STAINLESS STEELS  
 MARTENSITIC STAINLESS STEELS  
 BT #ALLOYS  
 IRON ALLOYS  
 STEELS  
 RT CHROMIUM ALLOYS  
 MANGANESE STEELS  
 MOLYBDENUM ALLOYS  
 NICKEL ALLOYS  
 NICKEL STEELS  
 STAIRCASES  
 USE STAIRWAYS  
 STAIRSTEPS  
 1305  
 RT FORMATIONS  
 STEPS  
 TOPOGRAPHY  
 STAIRWAYS  
 0506 1102 1103  
 UP STAIRCASES  
 RT BUILDINGS  
 ESCALATORS  
 LADDERS  
 TREADS  
 STALL  
 USE BOUNDARY LAYER SEPARATION  
 STALLING  
 0102 0104 1202 1203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AERODYNAMIC STALLING  
 BOUNDARY LAYER SEPARATION  
 ENGINE FAILURE  
 STAMPING  
 1504 1704  
 (EXCLUDES IDENTIFICATION MARKING)  
 BT #FORMING TECHNIQUES  
 PRESSING (FORMING)  
 RT BLANKING (CUTTING)  
 COINING  
 COLD WORKING  
 DIES  
 DIMPLING  
 FORGING  
 HOT PRESSING  
 #METAL WORKING  
 PUNCHES  
 SHEARING  
 STANDARD ATMOSPHERES  
 USE REFERENCE ATMOSPHERES  
 STANDARD DEVIATION  
 1902 1905  
 BT DISTRIBUTION MOMENTS  
 #MOMENTS  
 #STATISTICAL ANALYSIS  
 RT CONFIDENCE LIMITS  
 ESTIMATING  
 HETEROGENEITY  
 QUALITY CONTROL  
 #RANGE (EXTREMES)  
 VARIABILITY  
 VARIANCE (STATISTICS)  
 STANDARD LAUNCH VEHICLE 2A  
 3103 3110  
 BT #LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 STANDARD LAUNCH VEHICLES  
 STANDARD LAUNCH VEHICLE 1B  
 3103 3110  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 STANDARD LAUNCH VEHICLES  
 RT SOLID PROPELLANT ROCKET ENGINES  
 STANDARD LAUNCH VEHICLE P 1  
 3103 3110  
 BT #LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 STANDARD LAUNCH VEHICLES  
 STANDARD LAUNCH VEHICLE 3  
 USE ATLAS SLV-3 LAUNCH VEHICLE  
 STANDARD LAUNCH VEHICLE 5  
 3103 3110

BT #LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 STANDARD LAUNCH VEHICLES  
 STANDARD LAUNCH VEHICLES  
 3103 3110  
 UP SLV  
 RT ATLAS SLV-3 LAUNCH VEHICLE  
 STANDARD LAUNCH VEHICLE 2A  
 STANDARD LAUNCH VEHICLE 1B  
 STANDARD LAUNCH VEHICLE P 1  
 STANDARD LAUNCH VEHICLE 1  
 STANDARD LAUNCH VEHICLE 5  
 BT #LAUNCH VEHICLES  
 #ROCKET VEHICLES  
 RT ATLAS D ICBM  
 BLUE SCOUT JR ROCKET VEHICLE  
 STANDARDIZATION  
 1505 3407  
 RT CALIBRATING  
 NAMING  
 NUMERICAL CONTROL  
 PRODUCT DEVELOPMENT  
 PRODUCTION ENGINEERING  
 QUALITY CONTROL  
 SPECIFICATIONS  
 STANDARDS  
 VARIABILITY  
 STANDARDIZED SPACE GUIDANCE  
 3110  
 UP SSGS (STANDARDIZED SPACE GUIDANCE)  
 BT #GUIDANCE (MOTION)  
 RT SPACE NAVIGATION  
 STANDARDS  
 1505 3406  
 UP REFERENCES (STANDARDS)  
 NT FREQUENCY STANDARDS  
 REFERENCE ATMOSPHERES  
 RT ACCEPTABILITY  
 ACCURACY  
 CALIBRATING  
 CODES  
 CONVENTIONS  
 CRITERIA  
 INSPECTION  
 MEASUREMENT  
 MEASURES  
 METROLOGY  
 PERFORMANCE  
 PERFORMANCE TESTS  
 QUALITY CONTROL  
 RELIABILITY  
 SAMPLING  
 SPECIFICATIONS  
 STANDARDIZATION  
 TEMPERATURE SCALES  
 TOLERANCES (MECHANICS)  
 VALIDITY  
 VALUE ENGINEERING  
 STANDING WAVE RATIOS  
 0710 1202 2301 2309  
 BT #RATIOS  
 RT AMPLITUDES  
 #ELECTRICAL PROPERTIES  
 SMITH CHART  
 STANDING WAVES  
 #TRANSMISSION LINES  
 STANDING WAVES  
 0710 1202 2301 2309  
 RT ANTINODES  
 BEAT FREQUENCIES  
 #FREQUENCIES  
 HARMONICS  
 NODES (STANDING WAVES)  
 RADIATION  
 RESONANT FREQUENCIES  
 STANDING WAVE RATIOS  
 #VIBRATION  
 WAVELENGTHS  
 WAVES  
 STANDS  
 USE SUPPORTS  
 STANNATES  
 0603 1704 1804  
 BT #TIN COMPOUNDS  
 RT OXYGEN COMPOUNDS  
 STANNIDES  
 0603 1804  
 NT NIOBIUM STANNIDES  
 BT #TIN COMPOUNDS  
 RT TIN ALLOYS  
 STANNOSILOXANE  
 1808

# NASA THESAURUS (ALPHABETICAL LISTING)

BT #ALIPHATIC COMPOUNDS  
 ORGANIC SILICON COMPOUNDS  
 #SILICON COMPOUNDS  
 STANTON NUMBER  
 1202 1203 3303 3304  
 BT DIMENSIONLESS NUMBERS  
 #RATIOS  
 RT FORCED CONVECTION  
 HEAT TRANSFER  
 STAPHYLOCOCCUS  
 0407 0412  
 BT BACTERIA  
 #MICROORGANISMS  
 #PLANTS (BOTANY)  
 RT PLEUROTIN  
 STAR CLUSTERS  
 3001 3003  
 NT PRAESEPE STAR CLUSTERS  
 VIRGO STAR CLUSTER  
 BT #CELESTIAL BODIES  
 RT BINARY STARS  
 GALAXIES  
 STAR DISTRIBUTION  
 STARS  
 STAR DISTRIBUTION  
 1412 3001  
 UP STAR FIELDS  
 STELLAR FIELDS  
 BT #DISTRIBUTION (PROPERTY)  
 SPATIAL DISTRIBUTION  
 RT ANGULAR DISTRIBUTION  
 COSMOLOGY  
 GALACTIC EVOLUTION  
 MASS DISTRIBUTION  
 RADIAL DISTRIBUTION  
 STAR CLUSTERS  
 STAR FIELDS  
 USE STAR DISTRIBUTION  
 STAR TRACKERS  
 1410 1412 2102 2104  
 UP STAR TRACKING  
 BT #TRACKING (POSITION)  
 RT ASTROGUIDE NAVIGATION SYSTEM  
 #ATTITUDE CONTROL  
 CELESTIAL NAVIGATION  
 #FLIGHT INSTRUMENTS  
 GUIDANCE SENSORS  
 INERTIAL NAVIGATION  
 MISSILE CONTROL  
 #NAVIGATION  
 #NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 SOLAR SENSORS  
 SPACECRAFT GUIDANCE  
 STAR TRACKING  
 USE STAR TRACKERS  
 STARCHES  
 0403 0505  
 BT #ALIPHATIC COMPOUNDS  
 #CARBOHYDRATES  
 POLYSACCHARIDES  
 RT CHITIN  
 FOOD  
 SIZING MATERIALS  
 STARFIGHTER AIRCRAFT  
 USE F-104 AIRCRAFT  
 STARK EFFECT  
 0605 1411 2304  
 RT EFFECTS  
 ELECTRIC FIELDS  
 ELECTRO-OPTICS  
 HYDROGEN PLASMA  
 LINE SPECTRA  
 #RESOLUTION  
 SPECTRUM ANALYSIS  
 ZEEMAN EFFECT  
 STARLIFTER AIRCRAFT  
 USE C-141 AIRCRAFT  
 STARS  
 3001 3009  
 NT A STARS  
 B STARS  
 BINARY STARS  
 CEPHEID VARIABLES  
 COMPANION STARS  
 DWARF STARS  
 EARLY STARS  
 ECLIPSING BINARY STARS  
 EXTARS  
 GIANT STARS  
 HERCULES NOVA  
 HOT STARS

# NASA THESAURUS (ALPHABETICAL LISTING)

INFRARED STARS  
 LAMBDA TAURI STARS  
 MAGNETIC STARS  
 MAIN SEQUENCE STARS  
 NEUTRON STARS  
 NOVAE  
 O STARS  
 OMICRON CETI STAR  
 POLLUX STAR  
 PRAESEPE STAR CLUSTERS  
 PROTOSTARS  
 PULSARS  
 RADIO STARS  
 SUBDWARF STARS  
 SUN  
 SUPERGIANT STARS  
 SUPERNOVAE  
 T TAURI STARS  
 VAN BIESBROECK STAR  
 VARIABLE STARS  
 WHITE DWARF STARS  
 ZETA AURIGAE STAR  
 BT #CELESTIAL BODIES  
 RT CELESTIAL MECHANICS  
 CONSTELLATIONS  
 GALAXIES  
 MILKY WAY GALAXY  
 QUASARS  
 STAR CLUSTERS  
 VIRGO STAR CLUSTER  
 STARS (MATHEMATICS)  
 1902  
 RT MATHEMATICS  
 STARTERS  
 2806 2808 3301  
 NT ENGINE STARTERS  
 RT ACTUATORS  
 IGNITION SYSTEMS  
 SQUIBS  
 STARTING  
 STARTING  
 2808 3102 3301  
 RT ACTIVATION  
 ACTUATION  
 #CYCLES  
 ELECTRIC IGNITION  
 ENGINE PRIMERS  
 #EXCITATION  
 #FIRING (IGNITING)  
 IGNITION  
 INITIATION  
 #LAUNCHING  
 PRIMING  
 REACTOR STARTUP TESTS  
 STARTERS  
 STIMULATION  
 STATE EQUATIONS  
 USE EQUATIONS OF STATE  
 STATE ESTIMATION  
 USE ORBITAL POSITION ESTIMATION  
 STATE VECTORS  
 2308 2311  
 BT #ALGEBRA  
 VECTOR SPACES  
 VECTORS (MATHEMATICS)  
 RT PHASE-SPACE INTEGRAL  
 STEADY STATE  
 STATIC AERODYNAMIC CHARACTERISTICS  
 0101 0102 2308  
 BT #AERODYNAMIC CHARACTERISTICS  
 RT AERODYNAMIC BALANCE  
 AERODYNAMIC STABILITY  
 STATIC STABILITY  
 STATIC ALTERNATORS  
 0902 0904 2304  
 BT AC GENERATORS  
 #ELECTRIC GENERATORS  
 ROTATING GENERATORS  
 RT STATIC INVERTERS  
 STATIC DEFORMATION  
 2308 3203  
 BT #DEFORMATION  
 RT CREEP PROPERTIES  
 MAXWELL-MOHR METHOD  
 SAINT VENANT PRINCIPLE  
 STATIC LOADS  
 STATIC DISCHARGERS  
 2304  
 BT DISCHARGERS  
 RT STATIC ELECTRICITY  
 STATIC ELECTRICITY  
 1301 2003 2304

BT #ELECTRICITY  
 RT ATMOSPHERIC ELECTRICITY  
 ATMOSPHERICS  
 ELECTRIC CORONA  
 ELECTRIC FIELDS  
 ELECTRIC POTENTIAL  
 ELECTRIC SPARKS  
 ELECTROSTATIC CHARGE  
 ELECTROSTATICS  
 LIGHTNING  
 SPACE CHARGE  
 STATIC DISCHARGERS  
 STATIC FIRING  
 1108 2808 3009 3106  
 BT #CAPTIVE TESTS  
 ENGINE TESTS  
 #FINING (IGNITING)  
 #GROUND TESTS  
 #NONDESTRUCTIVE TESTS  
 PRELAUNCH TESTS  
 STATIC TESTS  
 TEST FIRING  
 RT ROCKET FIRING  
 STATIC FRICTION  
 1503 2308  
 BT #FRICTION  
 RT COEFFICIENT OF FRICTION  
 DRY FRICTION  
 FRICTION MEASUREMENT  
 KINETIC FRICTION  
 SLIDING  
 SLIDING FRICTION  
 STATIC INVERTERS  
 0902 0905  
 BT INVERTERS  
 RT #ELECTRIC GENERATORS  
 STATIC ALTERNATORS  
 STATIC LOADS  
 2308 3203  
 UP DEADWEIGHT  
 BT #LOADS (FORCES)  
 RT AERODYNAMIC LOADS  
 AXIAL COMPRESSION LOADS  
 AXIAL LOADS  
 BALLAST (MASS)  
 BENDING MOMENTS  
 COMPRESSION LOADS  
 CRITICAL LOADING  
 DYNAMIC LOADS  
 EDGE LOADING  
 LOADING MOMENTS  
 MASS DISTRIBUTION  
 MOMENT DISTRIBUTION  
 PRESSURE DISTRIBUTION  
 RANDOM LOADS  
 SAINT VENANT PRINCIPLE  
 STATIC DEFORMATION  
 WING LOADING  
 STATIC PRESSURE  
 1202 1203 1408 2308  
 NT HYDROSTATIC PRESSURE  
 BT #PRESSURE  
 RT ISOSTATIC PRESSURE  
 PITOT TUBES  
 SOUND PRESSURE  
 STATIC STABILITY  
 0101 0102 2308  
 NT DIMENSIONAL STABILITY  
 SHELL STABILITY  
 STRUCTURAL STABILITY  
 BT #STABILITY  
 RT AIRCRAFT STABILITY  
 COUNTERBALANCES  
 DRIFT (INSTRUMENTATION)  
 DYNAMIC STABILITY  
 MAGNETOHYDROSTATICS  
 STATIC AERODYNAMIC CHARACTERISTICS  
 STORAGE STABILITY  
 STRATIFICATION  
 SURFACE STABILITY  
 STATIC TESTS  
 1108 2808 3009 3106  
 (ENCOMPASSES MATERIALS, ENGINE, AND  
 VEHICLE TESTS)  
 NT STATIC FIRING  
 BT #CAPTIVE TESTS  
 RT COLD FLOW TESTS  
 COMPRESSION TESTS  
 CREEP TESTS  
 DYNAMIC TESTS  
 ENGINE TESTS  
 FATIGUE TESTS

# #STATISTICAL ANALYSIS

#GROUND TESTS  
 HARDNESS TESTS  
 INSPECTION  
 LOAD TESTS  
 MATERIALS TESTS  
 MISSILE TESTS  
 #NONDESTRUCTIVE TESTS  
 PREFIRING TESTS  
 PRELAUNCH TESTS  
 QUALITY CONTROL  
 RESONANCE TESTING  
 TENSILE TESTS  
 TEST FIRING  
 TESTS  
 #VIBRATION TESTS  
 WEAR TESTS  
 STATIC THRUST  
 0101 2308 2808 3009  
 BT #THRUST  
 RT JET THRUST  
 ROCKET THRUST  
 #STATICS  
 1202 2308  
 NT ELECTROSTATICS  
 HYDROSTATICS  
 MAGNETOHYDROSTATICS  
 RT DYNAMICS  
 ELASTOSTATICS  
 EQUILIBRIUM  
 #FLUID MECHANICS  
 MECHANICS (PHYSICS)  
 STATIONARY ORBITS  
 1904 3006 3107  
 BT CIRCULAR ORBITS  
 EQUATORIAL ORBITS  
 #ORBITS  
 SATELLITE ORBITS  
 SPACECRAFT ORBITS  
 RT EARTH ORBITS  
 SYNCHRONOUS SATELLITES  
 TWENTY-FOUR HOUR ORBITS  
 STATIONKEEPING  
 1102 1106 1109 2103 3109 3406  
 RT #GUIDANCE (MOTION)  
 #NAVIGATION  
 ORBITAL MECHANICS  
 #ORBITS  
 POSITIONING  
 #SPACECRAFT CONTROL  
 #STATIONS  
 1103 1106 1108 1109 1406 1409 3109  
 NT DEEP SPACE INSTRUMENTATION FACILITY  
 EOSS  
 GLOBAL TRACKING NETWORK  
 GROUND STATIONS  
 HALO ORBIT SPACE STATION  
 INTEGRATED MISSION CONTROL CENTER  
 ORBITAL SPACE STATIONS  
 ORBITAL WORKSHOPS  
 POLYSTATION DOPPLER TRACKING SYSTEM  
 SPACE DETECTION AND TRACKING SYSTEM  
 SPACE STATIONS  
 STADAN (SATELLITE TRACKING NETWORK)  
 TRACKING STATIONS  
 WEATHER STATIONS  
 RT BASES  
 FACILITIES  
 LUNAR BASES  
 MILITARY AIR FACILITIES  
 PLANETARY BASES  
 POSITION (LOCATION)  
 SPACE BASES  
 #STATISTICAL ANALYSIS  
 1902 1905  
 UP MATHEMATICAL STATISTICS  
 NT AMPLITUDE DISTRIBUTION ANALYSIS  
 BIVARIATE ANALYSIS  
 CORRELATION COEFFICIENTS  
 FACTOR ANALYSIS  
 KOLMOGOROFF-SHIRNOFF TEST  
 MANN-WHITNEY-WILCOXON U TEST  
 MAXWELL-BOLTZMANN DENSITY FUNCTION  
 MULTIVARIATE STATISTICAL ANALYSIS  
 NONPARAMETRIC STATISTICS  
 NORMAL DENSITY FUNCTIONS  
 PEARSON DISTRIBUTIONS  
 POISSON DENSITY FUNCTIONS  
 PROBABILITY DENSITY FUNCTIONS  
 PROBABILITY DISTRIBUTION FUNCTIONS  
 RANK TESTS  
 RAYLEIGH DISTRIBUTION  
 REGRESSION ANALYSIS



# STATISTICAL COMMUNICATION THEORY

# NASA TREASURY (ALPHABETICAL LISTING)

REGRESSION COEFFICIENTS  
SEQUENTIAL ANALYSIS  
STANDARD DEVIATION  
STATISTICAL CORRELATION  
STATISTICAL DECISION THEORY  
STATISTICAL TESTS  
VARIANCE (STATISTICS)  
WEIBULL DENSITY FUNCTIONS  
RT ANALYZING  
APPLICATIONS OF MATHEMATICS  
APPROXIMATION  
BINOMIAL THEOREM  
BIOMETRICS  
CENSORED DATA (MATHEMATICS)  
#CHARTS  
CHEBYSHEV APPROXIMATION  
#COEFFICIENTS  
CONFIDENCE  
CONFIDENCE LIMITS  
CONTINUITY (MATHEMATICS)  
CORRELATION  
COVARIANCE  
DATA  
DATA CORRELATION  
DECISION THEORY  
DISCRETE FUNCTIONS  
DISPERSION  
ECONOMICS  
ESTIMATES  
ESTIMATING  
EVENTS  
EXPECTANCY HYPOTHESIS  
EXPERIMENTAL DESIGN  
EXPONENTIAL FUNCTIONS  
EXTRAPOLATION  
FACTORIAL DESIGN  
FAILURE ANALYSIS  
#FORECASTING  
GAME THEORY  
GAUSS-MARKOV THEOREM  
GRAPHS (CHARTS)  
INFORMATION THEORY  
INSPECTION  
INTERPOLATION  
LINEAR PREDICTION  
#MANAGEMENT  
MATHEMATICS  
MEAN  
MEDIAN (STATISTICS)  
MILLS RATIO  
MINIMUM VARIANCE ORBIT  
DETERMINATION  
MONTE CARLO METHOD  
MTBF  
OPERATIONS RESEARCH  
PROBABILITY THEORY  
QUALITY CONTROL  
QUANTILES  
QUEUEING THEORY  
RANDOM PROCESSES  
RELIABILITY  
ROOT-MEAN-SQUARE ERRORS  
SAMPLING  
STATISTICAL DISTRIBUTIONS  
STATISTICAL MECHANICS  
STATISTICAL WEATHER FORECASTING  
STATISTICS  
#STOCHASTIC PROCESSES  
SYSTEMS ANALYSIS  
SYSTEMS ENGINEERING  
TABLES (DATA)  
TRAVELING SALESMAN PROBLEM  
WIENER FILTERING  
STATISTICAL COMMUNICATION THEORY  
USE #COMMUNICATION THEORY  
STATISTICAL CORRELATION  
1902 1905  
BT CORRELATION  
#STATISTICAL ANALYSIS  
RT CORRELATION COEFFICIENTS  
DATA CORRELATION  
EVALUATION  
QUALITY CONTROL  
STATISTICS  
STATISTICAL DECISION THEORY  
1902 1905  
BT DECISION THEORY  
#STATISTICAL ANALYSIS  
RT GAME THEORY  
STATISTICAL DISTRIBUTIONS  
1902 1905  
UP RANDOM DISTRIBUTIONS

HT PEARSON DISTRIBUTIONS  
PROBABILITY DISTRIBUTION FUNCTIONS  
RT RAYLEIGH DISTRIBUTION  
BINOMIAL THEOREM  
CENSORED DATA (MATHEMATICS)  
COMPLEXITY  
CURVE FITTING  
DISTRIBUTION  
#DISTRIBUTION (PROPERTY)  
DISTRIBUTION FUNCTIONS  
DISTRIBUTION MOMENTS  
ERROR FUNCTIONS  
EVENTS  
EXPECTANCY HYPOTHESIS  
#FORECASTING  
GAMMA FUNCTION  
MATHEMATICAL MODELS  
PROBABILITY THEORY  
QUALITY CONTROL  
QUANTUM THEORY  
QUANTILES  
RELIABILITY  
#SCATTERING  
#STATISTICAL ANALYSIS  
STATISTICAL MECHANICS  
1902 1905 2308  
RT BOLTZMANN DISTRIBUTION  
BOLTZMANN TRANSPORT EQUATION  
#CLASSICAL MECHANICS  
CLOSURE LAW  
CONTINUUM MECHANICS  
ENERGY DISTRIBUTION  
FLUCTUATION THEORY  
FUNCTION SPACE  
LIOUVILLE EQUATIONS  
MACROSCOPIC EQUATIONS  
MALKUS THEORY  
MANY BODY PROBLEM  
MAXWELL-BOLTZMANN DENSITY FUNCTION  
MECHANICS (PHYSICS)  
ONISGER PHENOMENOLOGICAL  
COEFFICIENT  
QUANTUM MECHANICS  
QUANTUM THEORY  
#STATISTICAL ANALYSIS  
THERMODYNAMIC EQUILIBRIUM  
WEIGHTING FUNCTIONS  
STATISTICAL MOMENTS  
USE DISTRIBUTION MOMENTS  
STATISTICAL PROBABILITY  
USE PROBABILITY THEORY  
STATISTICAL TESTS  
1902 1905 3406  
RT KOLMOGOROFF-SMIRNOFF TEST  
MANN-WHITNEY-WILCOXON U TEST  
RANK TESTS  
BT #STATISTICAL ANALYSIS  
RT #CHARTS  
CONFIDENCE LIMITS  
CURVE FITTING  
DATA  
ESTIMATES  
ESTIMATING  
FACTOR ANALYSIS  
HETEROGENEITY  
HOMOGENEITY  
NORMALITY  
NULL HYPOTHESIS  
QUALITY CONTROL  
#RANGE (EXTREMES)  
REGRESSION ANALYSIS  
RELIABILITY  
SIGNIFICANCE  
TESTS  
VALIDITY  
STATISTICAL WEATHER FORECASTING  
1905 2001 2002 2003  
BT #FORECASTING  
#METEOROLOGY  
WEATHER FORECASTING  
RT LONG RANGE WEATHER FORECASTING  
NUMERICAL WEATHER FORECASTING  
#STATISTICAL ANALYSIS  
STATISTICS  
1902 1905  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT #ARRAYS  
BIOMETRICS  
ESTIMATES  
ESTIMATING

INFORMATION THEORY  
POPULATIONS  
PROBABILITY THEORY  
QUANTUM STATISTICS  
RANDOM VARIABLES  
RELIABILITY  
SAMPLING  
#STATISTICAL ANALYSIS  
STATISTICAL CORRELATION  
#STOCHASTIC PROCESSES  
SURVEYS  
SYSTEMS ENGINEERING  
TABLES (DATA)  
TIME SERIES ANALYSIS  
STATOR BLADES  
0202 1504  
BT TURBOMACHINE BLADES  
RT BLADES  
COMPRESSOR BLADES  
ROTOR BLADES (TURBOMACHINERY)  
STATORS  
TURBINE BLADES  
#VANES  
STATORS  
0202 1504  
RT COMPRESSORS  
ELECTRIC MOTORS  
GENERATORS  
IMPELLERS  
#MOTORS  
#PUMPS  
ROTATING ELECTRICAL MACHINES  
ROTORS  
STATOR BLADES  
TURBINES  
STAYS  
USE GUY WIRES  
STEADY FLOW  
1202 1203  
RT COUETTE FLOW  
HARTMANN FLOW  
BT #FLUID FLOW  
RT BELTRAMI FLOW  
CONTINUITY EQUATION  
CRITICAL FLOW  
CROCCO METHOD  
EQUILIBRIUM FLOW  
FLOW CHARACTERISTICS  
FLOW GEOMETRY  
FLOW STABILITY  
GAS FLOW  
HEAT TRANSMISSION  
LAMINAR FLOW  
LIQUID FLOW  
MASS FLOW  
METHOD OF CHARACTERISTICS  
MULTIPHASE FLOW  
NONNEWTONIAN FLOW  
ORIFICE FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
QUASI-STEADY STATES  
SINGLE-PHASE FLOW  
SOLIDS FLOW  
STEAM FLOW  
STOKES FLOW  
SUBCRITICAL FLOW  
SUPERCRITICAL FLOW  
#TURBULENCE  
TURBULENT FLOW  
TWO DIMENSIONAL FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
STEADY STATE  
1003 1202 2311  
RT EQUILIBRIUM  
FLUID DYNAMICS  
METASTABLE STATE  
#STABILITY  
STATE VECTORS  
UNSTEADY FLOW  
UNSTEADY STATE  
STEADY STATE CREEP  
2601 3203  
BT CREEP PROPERTIES  
#MECHANICAL PROPERTIES  
RT PLASTIC FLOW  
QUASI-STEADY STATES  
STEADY STATE FLOW  
USE EQUILIBRIUM FLOW  
STEAM  
0603 1202 3303

# NASA THESAURUS (ALPHABETICAL LISTING)

RT BOILERS  
POG  
SUPERHEATING  
THERMODYNAMICS  
WATER  
WATER VAPOR  
STEAM FLOW  
1202  
BT #FLUID FLOW  
RT CRITICAL FLOW  
GAS FLOW  
LAMINAR FLOW  
MASS FLOW  
MULTIPHASE FLOW  
ORIFICE FLOW  
PIPE FLOW  
PIPELINES  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
SUBCRITICAL FLOW  
SUPERCRITICAL FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
STEAM GENERATORS  
USE BOILERS  
STEAM TURBINES  
1504 3303  
BT TURBINES  
#TURBOMACHINERY  
RT AXIAL FLOW TURBINES  
GAS TURBINE ENGINES  
GAS TURBINES  
TURBOGENERATORS  
TWO STAGE TURBINES  
STEARATES  
1808  
NT BARIUM STEARATES  
BT #ALIPHATIC COMPOUNDS  
#ESTERS  
RT SOAPS  
STEATOTHERMOPHILUS  
0404 0406 0407  
BT BACTERIA  
#MICROORGANISMS  
#PLANTS (BOTANY)  
STEATITE  
USE TALC  
STEEL STRUCTURES  
1701 1704 3202 3203  
RT #COMPOSITE STRUCTURES  
CONSTRUCTION  
RIGID STRUCTURES  
STRUCTURES  
STEELS  
1701 1704  
UF NOTCHED STEEL  
NT AUSTENITIC STAINLESS STEELS  
BAINITIC STEEL  
CARBON STEELS  
CHROMIUM STEELS  
CROLOY  
HIGH STRENGTH STEELS  
MARAGING STEELS  
MARTENSITIC STAINLESS STEELS  
NICKEL STEELS  
STAINLESS STEELS  
BT #ALLOYS  
IRON ALLOYS  
RT AUSTENITE  
BAINITE  
CEMENTITE  
FERRITES  
MARTENSITE  
PEARLITE  
STEEP GRADIENT AIRCRAFT  
USE #V/STOL AIRCRAFT  
STEEPEST ASCENT METHOD  
USE STEEPEST DESCENT METHOD  
STEEPEST DESCENT METHOD  
0802 1902 1905 2308  
UF STEEPEST ASCENT METHOD  
RT CALCULUS OF VARIATIONS  
DYNAMIC PROGRAMMING  
METHODOLOGY  
MINIMA  
#OPTIMIZATION  
STEEPNESS  
USE SLOPES  
STEERABLE ANTENNAS  
0701 0705 0709 0901

(ANTENNAS DESIGNED OR ARRANGED TO  
PERMIT CHANGES IN THE DIRECTION OF AIM  
BY ALTERATIONS OF PHASE RELATIONS)  
NT INERTIALLESS STEERABLE ANTENNAS  
BT ANTENNA ARRAYS  
ANTENNAS  
#ARRAYS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
RT PHASED ARRAYS  
RADAR ANTENNAS  
STEERING  
0303 1402 1410 2102  
RT CONTROL  
CONTROL ROCKETS  
CONTROLLABILITY  
ELECTRON OPTICS  
FLIGHT  
FOCUSING  
SUSPENSION SYSTEMS (VEHICLES)  
STEERING ROCKETS  
USE CONTROL ROCKETS  
STEPAN-BOLTZMANN LAW  
2306 2310 2402 3304  
BT #LAWS  
RADIATION LAWS  
RT #ELECTROMAGNETIC RADIATION  
EMISSIVITY  
FLUX (RATE)  
HEAT RADIATORS  
KIRCHHOFF LAW OF RADIATION  
RADIATIVE HEAT TRANSFER  
STELLAR ATMOSPHERES  
3001 3003 3009  
NT CHRONOSPHERE  
SOLAR ATMOSPHERE  
BT #ENVIRONMENTS  
EXTRATERRESTRIAL ENVIRONMENTS  
RT ATMOSPHERES  
RADIATIVE TRANSFER  
STELLAR STRUCTURE  
STELLAR WINDS  
STELLAR DOPPLER SHIFT  
USE DOPPLER EFFECT  
#EXTRATERRESTRIAL RADIATION  
STELLAR EVOLUTION  
3001 3003  
BT #EVOLUTION (DEVELOPMENT)  
RT ASTROPHYSICS  
COSMOLOGY  
GALACTIC EVOLUTION  
HERTZSPRUNG-RUSSELL DIAGRAM  
INTERSTELLAR EXTINCTION  
MAIN SEQUENCE STARS  
PLANETARY EVOLUTION  
PROTOSTARS  
STELLAR MASS  
STELLAR MASS EJECTION  
STELLAR SPECTRA  
STELLAR STRUCTURE  
STELLAR FIELDS  
USE STAR DISTRIBUTION  
STELLAR INERTIAL NAVIGATION  
USE CELESTIAL NAVIGATION  
INERTIAL NAVIGATION  
STELLAR LUMINOSITY  
1404 1412 2306 3001  
RT BRIGHTNESS  
ELECTROMAGNETIC PROPERTIES  
HERTZSPRUNG-RUSSELL DIAGRAM  
STELLAR MASS  
STELLAR SPECTRA  
STELLAR MAGNETIC FIELDS  
2307 3001 3002  
NT SOLAR MAGNETIC FIELD  
BT #MAGNETIC FIELDS  
RT ELECTROMAGNETIC FIELDS  
INTERSTELLAR MAGNETIC FIELDS  
#PLASMAS (PHYSICS)  
STELLAR STRUCTURE  
STELLAR MASS  
3001 3002  
BT #MASS  
RT MAIN SEQUENCE STARS  
NOVAE  
STELLAR EVOLUTION  
STELLAR LUMINOSITY  
STELLAR SPECTRA  
SUPERNOVAE  
VARIABLE STARS  
STELLAR MASS EJECTION  
3001 3002

# STELLAR WINDS

BT EJECTION  
RT NOVAE  
STELLAR EVOLUTION  
SUPERNOVAE  
VARIABLE STARS  
STELLAR MOTIONS  
1901 3001 3002  
RT COMPANION STARS  
DOPPLER EFFECT  
DOPPLER-FIZEAU EFFECT  
MOTION  
STELLAR SPECTRA  
STELLAR OCCULTATION  
3001 3009  
BT #OCCULTATION  
RT ECLIPSING BINARY STARS  
LUNAR OCCULTATION  
STELLAR RADIATION  
2309 2402 2903 3001  
UF STELLAR REFRACTION  
NT STELLAR WINDS  
BT #EXTRATERRESTRIAL RADIATION  
RT COSMIC RAYS  
#ELECTROMAGNETIC RADIATION  
EXTARS  
GALACTIC RADIATION  
INTERSTELLAR EXTINCTION  
INTERSTELLAR RADIATION  
POLARIZED ELECTROMAGNETIC RADIATION  
RADIATIVE TRANSFER  
RADIO BURSTS  
RADIO STARS  
SOLAR RADIATION  
STELLAR REFRACTION  
USE ATMOSPHERIC REFRACTION  
STELLAR RADIATION  
STELLAR ROTATION  
1901 3001 3002  
NT SOLAR ROTATION  
BT #GYRATION  
ROTATION  
RT ANGULAR MOMENTUM  
PLANETARY ROTATION  
STELLAR SPECTRA  
1411 1412 2306 3001  
NT SOLAR SPECTRA  
BT ELECTROMAGNETIC SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ABSORPTION SPECTRA  
ASTRONOMICAL SPECTROSCOPY  
EMISSION SPECTRA  
HERTZSPRUNG-RUSSELL DIAGRAM  
INFRARED SPECTRA  
LINE SPECTRA  
MOLECULAR SPECTRA  
STELLAR EVOLUTION  
STELLAR LUMINOSITY  
STELLAR MASS  
STELLAR MOTIONS  
ULTRAVIOLET SPECTRA  
STELLAR SPECTROPHOTOMETRY  
1411 1412 2306 2402 3001  
BT ASTRONOMICAL PHOTOMETRY  
#OPTICAL MEASUREMENT  
PHOTOMETRY  
SPECTROPHOTOMETRY  
#SPECTROSCOPY  
RT SPECTROSCOPIC TELESCOPES  
STELLAR STRUCTURE  
3001 3002 3003  
RT CHRONOSPHERE  
SOLAR ATMOSPHERE  
SOLAR CORONA  
STELLAR ATMOSPHERES  
STELLAR EVOLUTION  
STELLAR MAGNETIC FIELDS  
STRUCTURES  
STELLAR WINDS  
2502 2903 3001 3002 3003  
BT CHARGED PARTICLES  
#EXTRATERRESTRIAL RADIATION  
IONIZED GASES  
#PARTICLES  
#PLASMAS (PHYSICS)  
STELLAR RADIATION  
CHROMOSPHERE  
COSMIC PLASMA  
INTERGALACTIC MEDIA  
INTERSTELLAR GAS  
RADIATION PRESSURE  
SOLAR WIND

## STELLARATORS

STELLAR ATMOSPHERES  
**STELLARATORS**  
 2205 2307 2501  
 RT MAGNETOHYDRODYNAMICS  
 #NUCLEAR REACTORS  
 #PINCH EFFECT  
 THERMAL INSTABILITY  
 THERMONUCLEAR POWER GENERATION  
 THERMONUCLEAR REACTIONS  
 TOROIDAL PLASMAS  
**STELLITE (TRADEMARK)**  
 1701  
 UP HAYNES STELLITE  
 RT CHROMIUM ALLOYS  
 COBALT ALLOYS  
 TUNGSTEN ALLOYS  
**STENS**  
 0409  
 RT #PLANTS (BOTANY)  
**STENCIL PROCESSES**  
 1504  
 RT REPRODUCTION (COPYING)  
**STEP FUNCTIONS**  
 1902 1905  
 BT #FUNCTIONS (MATHEMATICS)  
 RT DYNAMIC RESPONSE  
 FREQUENCY RESPONSE  
 INTERVALS  
 RAMP FUNCTIONS  
 REACTION TIME  
 STEPS  
 0202 1102 1305 1902 3203 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT PROGRAMMING (SCHEDULING)  
 STAIRSTEPS  
 STEP FUNCTIONS  
**STEREOCHEMISTRY**  
 0601 0603 2401 2404 2406  
 RT #CARBOHYDRATES  
 SPATIAL DISTRIBUTION  
 X RAY ANALYSIS  
**STEREOGRAPHY**  
 USE STEREOPHOTOGRAPHY  
**STEREOPHOTOGRAPHY**  
 1407 1412  
 UP STEREOGRAPHY  
 STEREOSCOPIC PHOTOGRAPHY  
 BT #IMAGERY  
 #PHOTOGRAPHY  
 RT AERIAL PHOTOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 CINEMATOGRAPHY  
 COLOR PHOTOGRAPHY  
 PHOTOGRAMMETRY  
**STEREOSCOPIC PHOTOGRAPHY**  
 USE STEREOPHOTOGRAPHY  
**STEREOSCOPIC VISION**  
 0404 0408  
 BT VISION  
 RT BINOCULAR VISION  
**STEREOSCOPY**  
 1406  
**STEREOTELEVISION**  
 0702 0710  
 RT CLOSED CIRCUIT TELEVISION  
 COLOR TELEVISION  
 #COMMUNICATING  
 EDUCATIONAL TELEVISION  
 SATELLITE TELEVISION  
 SPACECRAFT TELEVISION  
**STERILIZATION**  
 0405 0408 0504  
 RT CHEMICAL STERILIZATION  
 SPACECRAFT STERILIZATION  
 RT AIR PURIFICATION  
 ANTISEPTICS  
 BACTERICIDES  
 BAKING  
 CLEANING  
 DECONTAMINATION  
 FUMIGATION  
 #IONIZING RADIATION  
 MERCURY LAMPS  
 PASTEURIZING  
 PURIFICATION  
 ULTRAVIOLET RADIATION  
**STERNES**  
 USE AFTERBODIES

**STERNEUM**  
 0404  
 BT #ANATOMY  
 BONES  
 MUSCULOSKELETAL SYSTEM  
 THORAX  
**#STERIODS**  
 0403 0405 1808  
 RT ACTINOMYCIN  
 ALDOSTERONE  
 CHOLESTEROL  
 CORTICOSTEROIDS  
 CORTISONE  
 DIGITONIN  
 PENICILLIN  
 STREPTOMYCIN  
 TETRACYCLINES  
 RT ANTIBIOTICS  
**STETHOSCOPES**  
 0405 0501  
 BT #MEDICAL EQUIPMENT  
**STP-102 ENGINE**  
 2801 2805  
 BT AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 TURBOPAN ENGINES  
 TURBOJET ENGINES  
**STIELTJES INTEGRAL**  
 1902  
 BT #ANALYSIS (MATHEMATICS)  
 MEASURE AND INTEGRATION  
 REAL VARIABLES  
 RT PROBABILITY THEORY  
**STIFF STRUCTURES**  
 USE RIGID STRUCTURES  
**STIFFENING**  
 3202  
 RT REINFORCEMENT (STRUCTURES)  
 RIBS (SUPPORTS)  
 WEBS (SUPPORTS)  
**STIFFNESS**  
 2308 3203  
 BT #MECHANICAL PROPERTIES  
 RT BENDING  
 #DEFORMATION  
 FLEXIBILITY  
 MODULUS OF ELASTICITY  
 RIGIDITY  
 STRUCTURAL STABILITY  
**STIGMATISM**  
 0405 0408 2310  
 RT ASTIGMATISM  
 FOCUSING  
 LENS DESIGN  
 LENSES  
**STILBENE**  
 1808  
 RT HEXANITROSTILBENE /BNST/  
**STILLS**  
 1202 3303 3304  
 BT #SEPARATORS  
 RT CONCENTRATORS  
 DISTILLATION EQUIPMENT  
**STIMULANT**  
 0405 0408  
 RT ATROPINE  
 CAFFEINE  
 CENTRAL NERVOUS SYSTEM STIMULANTS  
 NORADRENALINE  
 NOREPINEPHRINE  
 RT #DRUGS  
 RT EPINEPHRINE  
 STRYCHNINE  
**STIMULATED EMISSION**  
 1601 2403 2405, 2406  
 BT #DECAY  
 EMISSION  
 RT ARGON LASERS  
 CARBON DIOXIDE LASERS  
 CARBON MONOXIDE LASERS  
 COHERENT ELECTROMAGNETIC RADIATION  
 COHERENT LIGHT  
 ELECTRON EMISSION  
 GALLIUM ARSENIDE LASERS  
 GAS LASERS  
 GAS MASERS  
 LASERS  
 LIGHT EMISSION

## NASA THESAURUS (ALPHABETICAL LISTING)

MASERS  
 OPTICAL PUMPING  
 PARTICLE EMISSION  
 PHOTOELECTRIC EMISSION  
 POPULATION INVERSION  
 SELF SUSTAINED EMISSION  
 #STIMULATED EMISSION DEVICES  
**#STIMULATED EMISSION DEVICES**  
 1601  
 UP QUANTUM GENERATORS  
 RT ARGON LASERS  
 CARBON DIOXIDE LASERS  
 CARBON MONOXIDE LASERS  
 CHEMICAL LASERS  
 GALLIUM ARSENIDE LASERS  
 GAS LASERS  
 GAS MASERS  
 HELIUM-NEON LASERS  
 INFRARED LASERS  
 INJECTION LASERS  
 LASERS  
 LIQUID LASERS  
 MASERS  
 ORGANIC LASERS  
 PROTON MASERS  
 PULSED LASERS  
 Q SWITCHED LASERS  
 RAMAN LASERS  
 RING LASERS  
 RUBY LASERS  
 SEMICONDUCTOR LASERS  
 SOLID STATE LASERS  
 TRAVELING WAVE MASERS  
 RT #AMPLIFIERS  
 COHERENT ELECTROMAGNETIC RADIATION  
 GENERATORS  
 LIGHT TRANSMISSION  
 OPTICAL PUMPING  
 STIMULATED EMISSION  
 SUBHARMONIC GENERATORS  
 TRANSIENT OSCILLATIONS  
**STIMULATION**  
 3407  
 RT AUDITORY STIMULI  
 SENSORY STIMULATION  
 RT ACTIVATION  
 ACTIVATION (BIOLOGY)  
 ACTUATION  
 CLOUD SEEDING  
 GAS INJECTION  
 INITIATION  
 PRESSURIZING  
 STARTING  
**STIMULI**  
 0404 0408  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT AROUSAL  
 AUDITORY STIMULI  
 CALORIC STIMULI  
 ELECTRIC STIMULI  
 MOTIVATION  
 PSYCHOLOGICAL FACTORS  
 SUBLIMINAL STIMULI  
 VISUAL STIMULI  
**STIRLING CYCLE**  
 1504 3304  
 BT #CYCLES  
 THERMODYNAMIC CYCLES  
 CARNOT CYCLE  
**STIRRING**  
 0602 0603  
 RT AERATION  
 DISPERSING  
 MIXERS  
 SUSPENDING (MIXING)  
 SWIRLING  
**#STOCHASTIC PROCESSES**  
 0802 1902 1905 2311  
 UP POISSON PROCESS  
 RT MARKOV CHAINS  
 MARKOV PROCESSES  
 RANDOM PROCESSES  
 RANDOM WALK  
 RT APPLICATIONS OF MATHEMATICS  
 COHERENCE COEFFICIENT  
 DECISION THEORY  
 ERGODIC PROCESS  
 EVENTS  
 FOKKER-PLANCK EQUATION  
 GAME THEORY

## NASA THESAURUS (ALPHABETICAL LISTING)

## #STORMS

INFORMATION THEORY  
 KAKUTANI THEOREM  
 KALMAN-SCHMIDT FILTERING  
 MATHEMATICAL MODELS  
 MONTE CARLO METHOD  
 OPERATIONS RESEARCH  
 PROBABILITY THEORY  
 QUEUEING THEORY  
 RANDOM ERRORS  
 RANDOM NOISE  
 RANDOM SIGNALS  
 \*STATISTICAL ANALYSIS  
 STATISTICS  
 TIME DEPENDENCE  
 TIME FUNCTIONS  
 TIME SERIES ANALYSIS

**STOCKPILING**  
 3401  
 RT ACCUMULATIONS  
 COLLECTION  
 INVENTORY MANAGEMENT  
 LOGISTICS  
 RESERVES  
 STORAGE

**STOICHIOMETRY**  
 0602 0603 3304  
 RT \*CHEMICAL REACTIONS  
 CHEMISTRY  
 COMPOSITION  
 \*COMPOSITION (PROPERTY)  
 FORMULATIONS  
 MATERIAL BALANCE  
 PHASE DIAGRAMS

**STOKES-BELTRAMI EQUATION**  
 1202 1203  
 RT EQUATIONS  
 LAPLACE EQUATION  
 STREAM FUNCTIONS (FLUIDS)

**STOKES FLOW**  
 1202  
 BT \*FLUID FLOW  
 INCOMPRESSIBLE FLOW  
 VISCOUS FLOW  
 RT OSEEN APPROXIMATION  
 STEADY FLOW

**STOKES LAW**  
 0605 1202 1902 2402  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT LAWS  
 MAIWELL EQUATION  
 STOKES LAW (FLUID MECHANICS)  
 STOKES THEOREM (VECTOR CALCULUS)

**STOKES LAW (FLUID MECHANICS)**  
 1202  
 RT SETTLING  
 STOKES LAW  
 VISCOSITY

**STOKES THEOREM (VECTOR CALCULUS)**  
 1902  
 BT \*ALGEBRA  
 \*THEOREMS  
 VECTOR SPACES  
 RT STOKES LAW

**STOL AIRCRAFT**  
 USE SHORT TAKEOFF AIRCRAFT

**STOMACH**  
 0404 0405  
 BT \*ANATOMY  
 \*DIGESTIVE SYSTEM  
 GASTROINTESTINAL SYSTEM  
 ORGANS  
 \*VISCERA  
 RT ABDOMEN

**STONES (ROCKS)**  
 USE ROCKS

**STONY METEORITES**  
 3005  
 RT ACHONDRITES  
 ALAIS METEORITE  
 AUSTRALITES  
 BEDIASITES  
 BONDOC METEORITE  
 BRUDERHEIM METEORITE  
 CARBONACEOUS METEORITES  
 CHONDRITES  
 COLD BOKKVELD METEORITE  
 DIALPUR METEORITE  
 HVIITIS CHONDRITE  
 IVUNA METEORITE  
 KAPOETA ACHONDRITE

MURRAY METEORITE  
 NORTON COUNTY ACHONDRITE  
 ORGUEIL METEORITE  
 PANTAR CHONDRITES  
 PRIBRAM METEORITE  
 TEKTITES  
 TONK METEORITE  
 TUNGUSK METEORITE  
 YURTUK METEORITE  
 BT \*CELESTIAL BODIES  
 METEORITES  
 RT COESITE  
 HARLETON METEORITE  
 IRON METEORITES  
 LAZAREV METEORITE  
 METEORITIC COMPOSITION  
 METEORITIC MICROSTRUCTURES  
 OKHANSK METEORITE  
 SCHREIBERSITE  
 TEKTITES

**STOPCOCKS**  
 USE COCKS  
**STOPPING**  
 1504 3406  
 UP TERMINATING  
 NT THRUST TERMINATION  
 RT BLOCKING  
 CANCELLATION  
 CLOSING  
 CONSTRUCTIONS  
 CONTAINMENT  
 DAMPING  
 DECELERATION  
 DELAY  
 ELIMINATION  
 HOLDING  
 INHIBITION  
 \*OPTIMIZATION  
 PLUGS  
 PREVENTION  
 REDUCTION  
 RETARDING  
 SEALING

**STOPPING POWER**  
 2202 2403 2405  
 RT ABSORBERS (MATERIALS)  
 ABSORPTION CROSS SECTIONS  
 CROSS SECTIONS  
 DENSITY (MASS/VOLUME)  
 NEUTRON CROSS SECTIONS  
 \*RADIATION ABSORPTION  
 RADIATION SHIELDING  
 SCATTERING CROSS SECTIONS

**STORABLE PROPELLANTS**  
 1103 2701 2702  
 BT \*PROPELLANTS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 GROUND SUPPORT EQUIPMENT  
 HIGH TEMPERATURE PROPELLANTS  
 HYDROCARBON FUELS  
 HYPERGOLIC ROCKET PROPELLANTS  
 LIQUID ROCKET PROPELLANTS  
 PROPELLANT ADDITIVES  
 PROPELLANT DECOMPOSITION  
 PROPELLANT EVAPORATION  
 PROPELLANT SENSITIVITY  
 PROPELLANT STORABILITY  
 PROPELLANT STORAGE  
 ROCKET PROPELLANTS  
 SOLID PROPELLANTS  
 SPACE STORAGE

**STORAGE**  
 0801 0802 1103 1502 3405  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BUFFER STORAGE  
 \*COMPUTER STORAGE DEVICES  
 CORE STORAGE  
 CRYOGENIC FLUID STORAGE  
 DATA STORAGE  
 DISPOSAL  
 DOCUMENT STORAGE  
 ENERGY STORAGE  
 EXTERNAL STORES  
 FARM CROPS  
 \*HANDLING EQUIPMENT  
 INVENTORIES  
 INVENTORY CONTROLS  
 INVENTORY MANAGEMENT

LIQUID FILLED SHELLS  
 LOGISTICS  
 LOGISTICS MANAGEMENT  
 MAGNETIC STORAGE  
 MATERIALS HANDLING  
 MISSILE SILOS  
 MISSILE STORAGE  
 PACKAGING  
 PIPELINES  
 PRESERVING  
 PROPELLANT STORAGE  
 RACKS (FRAMES)  
 RECORDING  
 RESERVES  
 RETAINING  
 SAFETY  
 SPACE STORAGE  
 STOCKPILING  
 STORAGE TANKS  
 UNDERGROUND STORAGE  
 WASTE DISPOSAL  
 WING-FUSELAGE STORES

**STORAGE BATTERIES**  
 0302 0602  
 (RECHARGEABLE BATTERIES)  
 RT NICKEL CADMIUM BATTERIES  
 NICKEL ZINC BATTERIES  
 SILVER CADMIUM BATTERIES  
 SILVER ZINC BATTERIES  
 BT ELECTRIC BATTERIES  
 \*ELECTROCHEMICAL CELLS  
 RT ALKALINE BATTERIES  
 BATTERY CHARGERS  
 DRY CELLS  
 ELECTROLYTES  
 METAL AIR BATTERIES  
 PRIMARY BATTERIES  
 REGENERATIVE FUEL CELLS

**STORAGE RINGS (PARTICLE ACCELERATORS)**  
 2202 2401 2405  
 UP ELECTRON RING ACCELERATORS  
 BT \*PARTICLE ACCELERATORS  
 SYNCHROTRONS  
 RT ACCELERATORS

**STORAGE STABILITY**  
 0603 1103 2702  
 BT LIFE (DURABILITY)  
 \*STABILITY  
 RT DECOMPOSITION  
 LIQUID SLOSHING  
 LONG TERM EFFECTS  
 STATIC STABILITY  
 SURFACE STABILITY  
 THERMAL STABILITY

**STORAGE TANKS**  
 1103 2702 3305  
 BT \*TANKS (CONTAINERS)  
 RT CRYOGENIC FLUID STORAGE  
 CYLINDRICAL TANKS  
 EXPULSION BLADDERS  
 FUEL TANKS  
 PIPELINES  
 PRESSURE VESSELS  
 PROPELLANT TANKS  
 SPACE STORAGE  
 SPHERICAL TANKS  
 STORAGE  
 TANK GEOMETRY  
 UNDERGROUND STORAGE  
 WING-FUSELAGE STORES

**\*STORMS**  
 1308 2003 3009  
 RT ANNA HURRICANE  
 CYCLONES  
 HURRICANES  
 IONOSPHERIC STORMS  
 MAGNETIC STORMS  
 NOISE STORMS  
 POLAR SUBSTORMS  
 RAINSTORMS  
 SOLAR STORMS  
 STORMS (METEOROLOGY)  
 SUDDEN IONOSPHERIC DISTURBANCES  
 THUNDERSTORMS  
 TORNADOES  
 TROPICAL STORMS  
 TYPHOONS  
 RT CLIMATOLOGY  
 DISTURBANCES  
 FLOODS  
 FRONTS (METEOROLOGY)  
 GUSTS

## STORMS (METEOROLOGY)

PRECIPITATION (METEOROLOGY)  
 SNOW COVER  
 WEATHER FORECASTING  
 #WIND (METEOROLOGY)  
 STORMS (METEOROLOGY)  
 2001 2003  
 NT ANNA HURRICANE  
 HURRICANES  
 POLAR SUBSTORMS  
 RAINSTORMS  
 THUNDERSTORMS  
 TORNADOES  
 TROPICAL STORMS  
 TYPHOONS  
 BT #STORMS  
 RT CLIMATOLOGY  
 FLIGHT CONDITIONS  
 FLOOD PREDICTIONS  
 FLOODS  
 GROUND WIND  
 GUSTS  
 HAIL  
 #ICE  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 PRECIPITATION (METEOROLOGY)  
 SNOW  
 SNOW COVER  
 SQUALLS  
 WEATHER FORECASTING  
 #WIND (METEOROLOGY)  
 STRAIGHT WINGS  
 USE RECTANGULAR WINGS  
 STRAIN AGING  
 USE PRECIPITATION HARDENING  
 STRAIN DISTRIBUTION  
 USE STRESS CONCENTRATION  
 STRAIN ENERGY METHODS  
 1704 3203  
 BT ENERGY METHODS  
 #STRUCTURAL ANALYSIS  
 RT ENERGY  
 SEISMIC ENERGY  
 STRAIN FATIGUE  
 USE FATIGUE (MATERIALS)  
 STRAIN GAGE ACCELEROMETERS  
 1406 1413 2308 3203  
 BT ACCELEROMETERS  
 #MEASURING INSTRUMENTS  
 RT PRESSURE GAGES  
 STRAIN GAGE BALANCES  
 STRAIN GAGE BALANCES  
 1406 3203  
 BT INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 WEIGHT INDICATORS  
 RT PRESSURE GAGES  
 STRAIN GAGE ACCELEROMETERS  
 STRAIN GAGES  
 1406 3203  
 UP ELECTRIC STRAIN GAGES  
 BT #MEASURING INSTRUMENTS  
 RT CABLE FORCE RECORDERS  
 DEFORMETERS  
 ELASTOMETERS  
 EXTENSOMETERS  
 FLIGHT LOAD RECORDERS  
 #MECHANICAL MEASUREMENT  
 PIEZOELECTRIC GAGES  
 PRESSURE GAGES  
 ROSETTE SHAPES  
 SHOCK MEASURING INSTRUMENTS  
 STRESS MEASUREMENT  
 TEMPERATURE INVERSIONS  
 TENSOMETERS  
 #TRANSDUCERS  
 WEIGHT INDICATORS  
 STRAIN HARDENING  
 1704 3203 3404  
 BT #HARDENING (MATERIALS)  
 WORK HARDENING  
 RT AGING (MATERIALS)  
 AGING (METALLURGY)  
 PRECIPITATION HARDENING  
 RESIDUAL STRESS  
 SHOT PEENING  
 STRESS RELIEVING  
 TEMPERATURE INVERSIONS  
 STRAIN RATE  
 3203 3204  
 BT #RATES (PER TIME)  
 RT IMPACT TESTS

LOADING RATE  
 #MECHANICAL PROPERTIES  
 TEMPERATURE INVERSIONS  
 SOFTENING  
 USE PLASTIC DEFORMATION  
 STRANDS  
 1305 1310  
 RT CABLES (ROPES)  
 CORDAGE  
 #FIBERS  
 FILAMENTS  
 MESH  
 YARNS  
 STRANGENESS  
 2401 2403 2405  
 BT #DECAY  
 RT HYPERONS  
 MESONS  
 PARITY  
 QUANTUM MECHANICS  
 STRAPDOWN INERTIAL GUIDANCE  
 2102 2308  
 BT #GUIDANCE (MOTION)  
 INERTIAL GUIDANCE  
 RT INERTIAL NAVIGATION  
 STRAPS  
 0507 0508 1504 3404  
 RT ANCHORS (FASTENERS)  
 BANDS  
 CLAMPS  
 #FASTENERS  
 HOLDERS  
 STRATA  
 1306  
 UP STRATIFIED LAYERS  
 NT SUBSTRATES  
 RT FLAT LAYERS  
 LAYERS  
 STRATIFICATION  
 STRATEGY  
 1902 3401 3402  
 RT DECISION THEORY  
 DEPLOYMENT  
 GAME THEORY  
 OPERATIONS  
 OPERATIONS RESEARCH  
 RISK  
 WARFARE  
 STRATIFICATION  
 1202 1301 1302 1306  
 NT ATMOSPHERIC STRATIFICATION  
 RT FLAT LAYERS  
 LAYERS  
 STATIC STABILITY  
 STRATA  
 STRATIFIED FLOW  
 STRATIGRAPHY  
 TEMPERATURE GRADIENTS  
 THERMOCLINES  
 STRATIFIED FLOW  
 0101 1202 1203 2502  
 BT #FLUID FLOW  
 LAMINAR FLOW  
 RT BAROCLINIC WAVES  
 BAROCLINITY  
 COAXIAL FLOW  
 FLOW GEOMETRY  
 SHEAR FLOW  
 STRATIFICATION  
 STRATIFIED LAYERS  
 USE STRATA  
 STRATIGRAPHY  
 1305 1306  
 RT FORMATION  
 FORMATIONS  
 GEOCHRONOLOGY  
 #GEOLOGY  
 GEOPHYSICS  
 HYDROGEOLOGY  
 MINES (EXCAVATIONS)  
 PALEONTOLOGY  
 PETROLOGY  
 PLATEAUS  
 ROCKS  
 SEDIMENTARY ROCKS  
 STRATIFICATION  
 WELLS  
 STRATOCUMULUS CLOUDS  
 1301 2003  
 BT #CLOUDS  
 CLOUDS (METEOROLOGY)  
 RT CUMULUS CLOUDS

## NASA THESAURUS (ALPHABETICAL LISTING)

STRATUS CLOUDS  
 STRATOPORTRESS AIRCRAFT  
 USE B-52 AIRCRAFT  
 STRATOJET AIRCRAFT  
 USE B-47 AIRCRAFT  
 STRATOPAUSE  
 1302 2003  
 STRATOSCOPE 1 TELESCOPE  
 USE STRATOSCOPE TELESCOPES  
 STRATOSCOPE 2 TELESCOPE  
 USE STRATOSCOPE TELESCOPES  
 STRATOSCOPE TELESCOPES  
 1308 1412  
 UP STRATOSCOPE 1 TELESCOPE  
 STRATOSCOPE 2 TELESCOPE  
 BT ASTRONOMICAL TELESCOPES  
 #OPTICAL EQUIPMENT  
 SPECTROSCOPIC TELESCOPES  
 #TELESCOPES  
 RT BALLOONS  
 REFLECTING TELESCOPES  
 REFRACTING TELESCOPES  
 STRATOSPHERE  
 1302 2003  
 RT CHEMOSPHERE  
 HOMOSPHERE  
 ISOTHERMAL LAYERS  
 STRATOSPHERE RADIATION  
 1302 2003 2903  
 BT #ATMOSPHERIC RADIATION  
 RT CORPUSCULAR RADIATION  
 #ELECTROMAGNETIC RADIATION  
 SKY RADIATION  
 TROPOSPHERIC RADIATION  
 STRATOPANKER AIRCRAFT  
 USE C-135 AIRCRAFT  
 STRATUS CLOUDS  
 1302 2001 2003  
 BT #CLOUDS  
 CLOUDS (METEOROLOGY)  
 RT FOG  
 NIMBOSTRATUS CLOUDS  
 STRATOCUMULUS CLOUDS  
 STREAM FUNCTIONS (FLUIDS)  
 1202 1203 2003  
 RT INCOMPRESSIBLE FLOW  
 POTENTIAL THEORY  
 STOKES-BELTRAMI EQUATION  
 STREAMS  
 TWO DIMENSIONAL FLOW  
 STREAMLINE FLOW  
 USE LAMINAR FLOW  
 STREAMLINED BODIES  
 0101 0102 0104 0201 3404  
 NT PAIRINGS  
 BT #SYMMETRICAL BODIES  
 RT AERODYNAMIC CONFIGURATIONS  
 #AIRFOILS  
 AXISYMMETRIC BODIES  
 BODIES  
 BODIES OF REVOLUTION  
 MISSILE BODIES  
 OGIVES  
 SLENDER BODIES  
 STREAMLINING  
 TOWED BODIES  
 STREAMLINING  
 0101 0102 0201 1202 3404  
 RT ACOUSTIC STREAMING  
 AIR FLOW  
 AIRCRAFT DESIGN  
 AIRCRAFT STRUCTURES  
 #AIRFOIL PROFILES  
 #AIRFOILS  
 PAIRINGS  
 FLUID DYNAMICS  
 FRICTION REDUCTION  
 HELICOPTER DESIGN  
 HYDROFOILS  
 PROFILES  
 SKIN FRICTION  
 STREAMLINED BODIES  
 STREAMS  
 1306 0201  
 NT GAS STREAMS  
 RT AIR FLOW  
 #FLUID FLOW  
 GAS FLOW  
 HYDROLOGY  
 RESERVOIRS  
 RIVERS  
 STREAM FUNCTIONS (FLUIDS)

# NASA THESAURUS (ALPHABETICAL LISTING)

## STREETS

1101 1102 1104 3202 3401

RT HIGHWAYS  
INTERSECTIONS  
PAVEMENTS  
ROADS  
TUNNELS  
URBAN PLANNING  
URBAN RESEARCH

## STRENGTH

3408 0408

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #MECHANICAL PROPERTIES  
MUSCULAR STRENGTH

## STRENGTH OF MATERIALS

USE #MECHANICAL PROPERTIES

## STREPTOCOCCUS

0407 0412

BT BACTERIA  
#MICROORGANISMS  
#PLANTS (BOTANY)

## STREPTOMYCETES

0407 0412

BT BACTERIA  
FUNGI  
#MICROORGANISMS  
#PLANTS (BOTANY)

## STREPTOMYCIN

0403 0405 0412

BT ANTIBIOTICS  
#DRUGS  
#STERIODS

## STRESS (BIOLOGY)

0408 0410

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT PATHOLOGICAL EFFECTS  
#STRESS (PHYSIOLOGY)  
STRESS (PSYCHOLOGY)

## #STRESS (PHYSIOLOGY)

0408 0410

RT ACCELERATION STRESSES (PHYSIOLOGY)  
CENTRIFUGING STRESS

RT ACCELERATION (PHYSICS)

ACCLIMATIZATION

AEIOEMBOLISM

ANOXIA

BIODYNAMICS

DEPRIVATION

FATIGUE (BIOLOGY)

FLIGHT STRESS (BIOLOGY)

HOMEOSTASIS

HYPOXIA

PALMAR SWEAT INDEX

PHYSIOLOGY

PRESSURE BREATHING

SPACE FLIGHT STRESS

STRESS (BIOLOGY)

STRESS (PSYCHOLOGY)

TOLERANCES (PHYSIOLOGY)

## STRESS (PSYCHOLOGY)

0408 0410

UP MENTAL STRESS

RT FATIGUE (BIOLOGY)

FLIGHT STRESS (BIOLOGY)

MENTAL PERFORMANCE

PALMAR SWEAT INDEX

SPACE FLIGHT STRESS

STRESS (BIOLOGY)

#STRESS (PHYSIOLOGY)

## STRESS ANALYSIS

0101 1106 3203

UP STRESS CALCULATIONS

BT PHOTOGRAPHIC MEASUREMENT

SCHWARTZ METHOD

X RAY STRESS ANALYSIS

RT AIRY FUNCTION

ANALYZING

BENDING MOMENTS

BENDING THEORY

CASTIGLIANO VARIATIONAL THEOREM

CONSTRUCTION

CREEP ANALYSIS

DONNELL EQUATIONS

ENERGY METHODS

EULER BUCKLING

FLIGHT STRESS

INFLUENCE COEFFICIENT

MECHANICAL ENGINEERING

## MICHELL THEOREM

MOMENTS OF INERTIA

PHOTOELASTIC ANALYSIS

PHOTOELASTICITY

REISSNER THEORY

S-N DIAGRAMS

SAINT VENANT PRINCIPLE

SHALLOW SHELL EQUATIONS

STRESS CONCENTRATION

STRESS MEASUREMENT

STRESS TENSORS

#STRESSES

#STRUCTURAL ANALYSIS

STRUCTURAL DESIGN

STRUCTURAL ENGINEERING

TEMPERATURE INVERSIONS

X RAY ANALYSIS

## STRESS CALCULATIONS

USE STRESS ANALYSIS

## STRESS CONCENTRATION

3203

UP STRAIN DISTRIBUTION

STRESS DISTRIBUTION

STRESS-STRAIN DISTRIBUTION

BT #DISTRIBUTION (PROPERTY)

RT CONCENTRATING

CRACK INITIATION

CRACKING (FRACTURING)

FATIGUE (MATERIALS)

FATIGUE TESTS

FORCE DISTRIBUTION

HOLE DISTRIBUTION (MECHANICS)

IMPACT STRENGTH

IMPACT TESTS

#LOADS (FORCES)

#MECHANICAL PROPERTIES

MOMENT DISTRIBUTION

NOTCH STRENGTH

NOTCH TESTS

PERFORATED PLATES

PERFORATED SHELLS

SAINT VENANT PRINCIPLE

STRESS ANALYSIS

STRESS CORROSION

STRESS FUNCTIONS

STRESS MEASUREMENT

STRESS PROPAGATION

STRESS-STRAIN DIAGRAMS

STRESS TENSORS

#STRESSES

STRUCTURAL STRAIN

## STRESS CORROSION

1702 1704 3203

BT CORROSION

RT CRACKING (FRACTURING)

PRETTING CORROSION

INTERGRANULAR CORROSION

METAL FATIGUE

SALT SPRAY TESTS

STRESS CONCENTRATION

## STRESS CYCLES

1704 3203 3204

BT #CYCLES

RT #MECHANICAL PROPERTIES

BT CYCLIC LOADS

FATIGUE (MATERIALS)

FATIGUE LIFE

FATIGUE TESTS

S-N DIAGRAMS

#STRESSES

## STRESS DISTRIBUTION

USE STRESS CONCENTRATION

## STRESS FUNCTIONS

3203

UP VON MISES THEORY

BT #FUNCTIONS (MATHEMATICS)

RT FRACTURING

STRESS CONCENTRATION

STRESS PROPAGATION

## STRESS MEASUREMENT

1406 3203

BT X RAY STRESS MEASUREMENT

BT #MECHANICAL MEASUREMENT

RT DEFORMETERS

EXTENSOMETERS

PHOTOELASTIC ANALYSIS

S-N DIAGRAMS

STRAIN GAGES

STRESS ANALYSIS

STRESS CONCENTRATION

TENSOMETERS

VIBRATION MEASUREMENT

## STRESS WAVES

### STRESS PROPAGATION

2311 3203

BT #TRANSMISSION

RT #ELASTIC WAVES

PLASTIC DEFORMATION

PROPAGATION

STRESS CONCENTRATION

STRESS FUNCTIONS

STRESS WAVES

### STRESS RATIO

3203

BT #MECHANICAL PROPERTIES

#RATIOS

RT FATIGUE (MATERIALS)

FATIGUE TESTS

MODULAR RATIOS

S-N DIAGRAMS

### STRESS RELAXATION

3203

BT #MECHANICAL PROPERTIES

RELAXATION (MECHANICS)

RT ANELASTICITY

BORDONI PEAKS

CREEP ANALYSIS

CREEP DIAGRAMS

CREEP PROPERTIES

DUCTILITY

FATIGUE (MATERIALS)

PLASTIC DEFORMATION

PLASTIC FLOW

PLASTIC MEMORY

PLASTIC PROPERTIES

RECOVERY

RESIDUAL STRESS

STRESS RELIEVING

STRESS WAVES

#STRESSES

TEMPERATURE INVERSIONS

### STRESS RELIEVING

3203

BT #HEAT TREATMENT

RT #ALLOYS

ANNEALING

FATIGUE (MATERIALS)

RECOVERY

RESIDUAL STRESS

STABILIZATION

STRAIN HARDENING

STRESS RELAXATION

TEMPERING

### STRESS RUPTURE STRENGTH

USE CREEP RUPTURE STRENGTH

### STRESS-STRAIN DIAGRAMS

3203 3404

UP STRESS-STRAIN RELATIONSHIPS

BT DIAGRAMS

RT AXIAL STRAIN

HOOKES LAW

MODULUS OF ELASTICITY

POISSON RATIO

PROPORTIONAL LIMIT

SHEAR PROPERTIES

STRESS CONCENTRATION

STRESS-STRAIN-TIME RELATIONS

STRUCTURAL STRAIN

YIELD STRENGTH

### STRESS-STRAIN DISTRIBUTION

USE STRESS CONCENTRATION

### STRESS-STRAIN RELATIONSHIPS

USE STRESS-STRAIN DIAGRAMS

### STRESS-STRAIN-TIME RELATIONS

1809 3203

RT CREEP DIAGRAMS

NEWTONIAN FLUIDS

STRESS-STRAIN DIAGRAMS

THERMOVISCOELASTICITY

### STRESS TENSORS

1202 3203

BT #ALGEBRA

TENSORS

RT CONTINUUM MECHANICS

ELASTIC PROPERTIES

FRACTURE MECHANICS

PLASTIC PROPERTIES

STRESS ANALYSIS

STRESS CONCENTRATION

STRUCTURAL DESIGN

### STRESS WAVES

0710 1202 3203

BT #ELASTIC WAVES

RT SHOCK LAYERS

# STRESSED-SKIN STRUCTURES

SHOCK WAVES  
STRESS PROPAGATION  
STRESS RELAXATION  
#STRESSES  
TEMPERATURE INVERSIONS  
WAVE PROPAGATION  
WAVES  
STRESSED-SKIN STRUCTURES  
0102 0104 0202 3110 3203  
RT MONOCOQUE STRUCTURES  
SKIN (STRUCTURAL MEMBER)  
SPHERICAL SHELLS  
STRUCTURES  
THIN WALLED SHELLS  
#STRESSES  
0408 1505 1704 2311 3203  
NT AXIAL STRESS  
COMBINED STRESS  
CRITICAL LOADING  
PHOTOSTRESSES  
RESIDUAL STRESS  
SHEAR STRESS  
TENSILE STRESS  
THERMAL STRESSES  
TORSIONAL STRESS  
TRIAxIAL STRESSES  
VIBRATIONAL STRESS  
RT BUCKLING  
CRACKS  
CREEP PROPERTIES  
DESTRUCTION  
FATIGUE (MATERIALS)  
FLIGHT STRESS  
IMPACT  
#LOADS (FORCES)  
#MECHANICAL PROPERTIES  
PRESTRESSING  
ROLLING CONTACT LOADS  
SHEAR PROPERTIES  
STRESS ANALYSIS  
STRESS CONCENTRATION  
STRESS CYCLES  
STRESS RELAXATION  
STRESS WAVES  
STRUCTURAL STRAIN  
TEMPERATURE INVERSIONS  
X RAY STRESS ANALYSIS  
YIELD STRENGTH  
STRETCH FORMING  
1507 1704 1809 2303  
RT BULGING  
COLD WORKING  
DRAWING  
METAL DRAWING  
#METAL WORKING  
STRETCHING  
STRETCHERS  
0405  
BT #MEDICAL EQUIPMENT  
RT FIRST AID  
STRETCHING  
1704 1809 3203  
UF DILATATION  
RT COLD WORKING  
DEEP DRAWING  
DILATATIONAL WAVES  
DISTORTION  
DRAWING  
DUCTILITY  
ELASTIC DEFORMATION  
ELONGATION  
#METAL WORKING  
PLASTIC DEFORMATION  
STRETCH FORMING  
TEMPERING  
TENSION  
WINDING  
STRIATION  
0404 0408  
RT GROOVING  
MUSCULOSKELETAL SYSTEM  
STRINGERS  
0102 0104 2806 3202 3203  
BT #STRUCTURAL MEMBERS  
RT LONGERONS  
REINFORCEMENT (STRUCTURES)  
STRUCTURAL STABILITY  
STRINGS  
0202 1103 1504 1807 1811  
RT ASSEMBLIES  
CORDAGE

STRIP  
1101 1102 1104 1507 1704  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIRPORTS  
#CIRCUITS  
#DISPLAY DEVICES  
RIBBONS  
RUNWAYS  
STRIP TRANSMISSION LINES  
0702 0710  
BT #TRANSMISSION LINES  
RT ANTENNA FEEDS  
TRANSMISSION CIRCUITS  
STRIPPING  
0602 1504  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT PEELING  
STRIPPING (DISTILLATION)  
STRIPPING (DISTILLATION)  
0602  
BT DISTILLATION  
RT SEPARATION  
STRIPPING  
VAPORIZING  
STROBOSCOPES  
1406 1504 2310  
BT #OPTICAL EQUIPMENT  
RT BALLISTIC CAMERAS  
HIGH SPEED CAMERAS  
#OPTICAL MEASUREMENT  
SYNCHRONISH  
TIME MEASUREMENT  
VELOCITY MEASUREMENT  
STROKES  
0404 0408 0602 1504 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CEREBRAL VASCULAR ACCIDENTS  
THERMODYNAMIC CYCLES  
STROKING TESTS  
1106 1108 1504 1505  
BT DAMPING TESTS  
STRUCTURAL VIBRATION  
TESTS  
#VIBRATION TESTS  
DYNAMIC RESPONSE  
FREQUENCY RESPONSE  
MODAL RESPONSE  
SHOCK SPECTRA  
TRANSIENT RESPONSE  
WAVE EXCITATION  
STRONGARM ROCKET VEHICLE  
3106 3409  
BT MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT HONEST JOHN ROCKET VEHICLE  
NIKE-AJAX MISSILE  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES  
STRONTIUM  
1703  
NT STRONTIUM ISOTOPES  
STRONTIUM 85  
STRONTIUM 89  
STRONTIUM 90  
BT #CHEMICAL ELEMENTS  
#METALS  
STRONTIUM BROMIDES  
0603 1804  
BT BROMIDES  
BROMINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
#STRONTIUM COMPOUNDS  
#STRONTIUM COMPOUNDS  
0603 1804  
NT STRONTIUM BROMIDES  
STRONTIUM FLUORIDES  
STRONTIUM SULFIDES  
STRONTIUM TITANATES  
STRONTIUM ZIRCONATES  
RT ALKALINE EARTH COMPOUNDS  
METAL COMPOUNDS  
STRONTIUM FLUORIDES  
0603 1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#STRONTIUM COMPOUNDS  
STRONTIUM ISOTOPES  
2406  
BT STRONTIUM 85  
STRONTIUM 89  
STRONTIUM 90  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
STRONTIUM  
STRONTIUM SULFIDES  
0603 1804  
BT #CHALCOGENIDES  
INORGANIC SULFIDES  
#STRONTIUM COMPOUNDS  
SULFIDES  
#SULFUR COMPOUNDS  
STRONTIUM TITANATES  
0603 1804  
BT #STRONTIUM COMPOUNDS  
TITANATES  
#TITANIUM COMPOUNDS  
STRONTIUM ZIRCONATES  
0603 1804  
BT #STRONTIUM COMPOUNDS  
ZIRCONATES  
#ZIRCONIUM COMPOUNDS  
STRONTIUM 85  
2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
STRONTIUM  
STRONTIUM ISOTOPES  
STRONTIUM 88  
2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
STRONTIUM 89  
1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
STRONTIUM  
STRONTIUM ISOTOPES  
STRONTIUM 90  
1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
STRONTIUM  
STRONTIUM ISOTOPES  
STROUHAL NUMBER  
0101 1202  
BT DIMENSIONLESS NUMBERS  
#RATIOS  
RT BACKWASH  
BUFFETING  
FLOW CHARACTERISTICS  
FLOW DISTRIBUTION  
FLOW STABILITY  
FROUDE NUMBER  
OSCILLATING FLOW  
SLIPSTREAMS  
#TURBULENCE  
UNSTEADY FLOW  
VORTICES  
#WAKES  
#STRUCTURAL ANALYSIS  
3203  
UF MEMBRANE ANALOGY  
MEMBRANE THEORY  
NT BERNSTEIN ENERGY PRINCIPLE  
DYNAMIC STRUCTURAL ANALYSIS  
ENERGY METHODS  
EQUILIBRIUM METHODS  
PLOTTER ANALYSIS  
MATRIX METHODS  
STRAIN ENERGY METHODS  
RT ANALYZING  
CASTIGLIANO VARIATIONAL THEOREM  
CONSTRUCTION  
CREEP ANALYSIS  
INFLUENCE COEFFICIENT

# NASA TREASURUS (ALPHABETICAL LISTING)

LOADING MOMENTS  
MICHELL THEOREM  
MODULAR RATIOS  
MOMENT DISTRIBUTION  
PLATE THEORY  
STRESS ANALYSIS  
STRUCTURAL DESIGN  
STRUCTURAL ENGINEERING  
#STRUCTURAL MEMBERS  
STRUCTURAL BEAMS  
USE BEAMS (SUPPORTS)  
STRUCTURAL DESIGN  
3203  
BT PRESSURE VESSEL DESIGN  
RT AIRCRAFT DESIGN  
AIRFRAME MATERIALS  
ARCHITECTURE  
COMPUTERIZED DESIGN  
CONSTRUCTION  
DESIGN  
HELICOPTER DESIGN  
LOFTING  
MISSILE DESIGN  
PRODUCT DEVELOPMENT  
SATELLITE DESIGN  
SHIP HULLS  
SHOCK SPECTRA  
SPACECRAFT DESIGN  
SPACECRAFT STRUCTURES  
STRESS ANALYSIS  
STRESS TENSORS  
#STRUCTURAL ANALYSIS  
STRUCTURAL ENGINEERING  
SUBSTRUCTURES  
UNDERWATER STRUCTURES  
STRUCTURAL DYNAMICS  
USE DYNAMIC STRUCTURAL ANALYSIS  
STRUCTURAL ENGINEERING  
3203 3404  
RT AERONAUTICAL ENGINEERING  
AEROSPACE ENGINEERING  
CONSTRUCTION  
ENGINEERING  
MODULAR RATIOS  
STRESS ANALYSIS  
#STRUCTURAL ANALYSIS  
STRUCTURAL DESIGN  
STRUCTURAL FAILURE  
1702 3201 3203  
BT FAILURE  
RT BENDING  
BUCKLING  
COLLAPSE  
CRACKING (FRACTURING)  
CREEP PROPERTIES  
#DEFORMATION  
FATIGUE (MATERIALS)  
FRACTURING  
#MECHANICAL PROPERTIES  
STRUCTURAL STRAIN  
SYSTEM FAILURES  
STRUCTURAL FATIGUE  
USE FATIGUE (MATERIALS)  
STRUCTURAL FOUNDATIONS  
USE FOUNDATIONS  
STRUCTURAL INFLUENCE COEFFICIENTS  
1809 3203  
UF SIC (COEFFICIENT)  
BT #COEFFICIENTS  
INFLUENCE COEFFICIENT  
STRUCTURAL MATERIALS  
USE CONSTRUCTION MATERIALS  
#STRUCTURAL MEMBERS  
3202 3203  
RT ANISOTROPIC PLATES  
ANNULAR PLATES  
BEAMS (SUPPORTS)  
BOX BEAMS  
CANTILEVER BEAMS  
CANTILEVER PLATES  
CIRCULAR PLATES  
COLUMNS (SUPPORTS)  
CORRUGATED PLATES  
CURVED BEAMS  
ELASTIC PLATES  
END PLATES  
FLAT PLATES  
GIRDER WEBS  
GIRDERS  
I BEAMS  
LONGERONS  
MEMBRANE STRUCTURES

ORTHOTROPIC PLATES  
PERFORATED PLATES  
PLATES (STRUCTURAL MEMBERS)  
POROUS PLATES  
RECTANGULAR BEAMS  
REINFORCED PLATES  
SADDLES (SUPPORTS)  
SKIN (STRUCTURAL MEMBER)  
STRINGERS  
STRUTS  
TAPERED COLUMNS  
TRUSSES  
WING PANELS  
RT AIRFRAME MATERIALS  
BARS  
CHANNELS  
COMPONENTS  
CONCRETES  
CONSTRUCTION  
CONSTRUCTION MATERIALS  
#FASTENERS  
FOUNDATIONS  
GUY WIRES  
#JOINTS (JUNCTIONS)  
MASONRY  
PYLON MOUNTING  
PYLONS  
RECTANGULAR PANELS  
REINFORCEMENT (STRUCTURES)  
RODS  
SLABS  
#STRUCTURAL ANALYSIS  
STRUCTURAL RELIABILITY  
STRUCTURAL STRAIN  
STRUCTURES  
SUBSTRUCTURES  
THICK WALLS  
STRUCTURAL RELIABILITY  
0101 1505 3203  
BT RELIABILITY  
RT AIRCRAFT RELIABILITY  
COMPONENT RELIABILITY  
CUMULATIVE DAMAGE  
QUALITY CONTROL  
SPACECRAFT RELIABILITY  
#STRUCTURAL MEMBERS  
STRUCTURAL STABILITY  
STRUCTURAL STRAIN  
STRUCTURAL RIGIDITY  
USE STRUCTURAL STABILITY  
STRUCTURAL STABILITY  
0101 3203  
UF STRUCTURAL RIGIDITY  
BT SHELL STABILITY  
BT DIMENSIONAL STABILITY  
#MECHANICAL PROPERTIES  
#STABILITY  
STATIC STABILITY  
RT AIRCRAFT STABILITY  
COMBUSTION VIBRATION  
LONGERONS  
PLASTIC PROPERTIES  
REINFORCEMENT (STRUCTURES)  
RESONANCE TESTING  
RIGIDITY  
SPACECRAFT STABILITY  
STIFFNESS  
STRINGERS  
STRUCTURAL RELIABILITY  
STRUCTURAL STRAIN  
STRUCTURAL VIBRATION  
WAVE RESISTANCE  
STRUCTURAL STRAIN  
0101 3203 3204  
RT AXIAL STRAIN  
BENDING  
BUCKLING  
CRACKING (FRACTURING)  
DEFLECTION  
#DEFORMATION  
ELASTIC DEFORMATION  
FAILURE  
FATIGUE (MATERIALS)  
MOMENTS OF INERTIA  
PLASTIC DEFORMATION  
PRESTRESSING  
REINFORCEMENT (STRUCTURES)  
RUPTURING  
SHEAR STRAIN  
SHEARING  
STRESS CONCENTRATION  
STRESS-STRAIN DIAGRAMS

## STRUTS

#STRESSES  
STRUCTURAL FAILURE  
#STRUCTURAL MEMBERS  
STRUCTURAL RELIABILITY  
STRUCTURAL STABILITY  
STRUCTURAL VIBRATION  
SYSTEM FAILURES  
TWISTING  
VOLUMETRIC STRAIN  
WARPAGE  
STRUCTURAL VIBRATION  
2301 2312 3203  
RT BENDING VIBRATION  
BREATHING VIBRATION  
FLUTTER  
LINEAR VIBRATION  
MISSILE VIBRATION  
PANEL FLUTTER  
SELF INDUCED VIBRATION  
STROKING TESTS  
SUBSONIC FLUTTER  
SUPERSONIC FLUTTER  
TORSIONAL VIBRATION  
TRANSONIC FLUTTER  
BT #VIBRATION  
RT FLUTTER ANALYSIS  
RANDOM VIBRATION  
RESONANT VIBRATION  
SHAKING  
SHOCK SPECTRA  
STRUCTURAL STABILITY  
STRUCTURAL STRAIN  
#VIBRATION TESTS  
STRUCTURAL WEIGHT  
1406 3203  
BT WEIGHT (MASS)  
RT MASS RATIOS  
NEW MOONS PROJECT  
WEIGHT ANALYSIS  
STRUCTURES  
2311 2401 2404 2601 3202 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIRCRAFT STRUCTURES  
ARCHITECTURE  
ATOMIC STRUCTURE  
BRIDGES (STRUCTURES)  
#COMPOSITE STRUCTURES  
CRYSTAL STRUCTURE  
EARTH PLANETARY STRUCTURE  
#EXPANDABLE STRUCTURES  
FINE STRUCTURE  
FOLDING STRUCTURES  
FOUNDATIONS  
FRAMES  
HONEYCOMB STRUCTURES  
HYPERFINE STRUCTURE  
INFLATABLE STRUCTURES  
INTRAMOLECULAR STRUCTURES  
ISOTENSOID STRUCTURES  
MEMBRANE STRUCTURES  
MICROSTRUCTURE  
MISSILE STRUCTURES  
MOLECULAR STRUCTURE  
MONOCOQUE STRUCTURES  
PLANAR STRUCTURES  
REDUNDANT COMPONENTS  
RIGID STRUCTURES  
RING STRUCTURES  
SANDWICH STRUCTURES  
#SPACE ERECTABLE STRUCTURES  
SPACECRAFT STRUCTURES  
STEEL STRUCTURES  
STELLAR STRUCTURE  
STRESSED-SKIN STRUCTURES  
#STRUCTURAL MEMBERS  
SUBSTRUCTURES  
#TANKS (CONTAINERS)  
TOWERS  
TRUSSES  
UNIMOLECULAR STRUCTURES  
VARIABLE GEOMETRY STRUCTURES  
WELDED STRUCTURES  
WOODEN STRUCTURES  
STRUTS  
1204 3202 3203  
BT #STRUCTURAL MEMBERS  
RT CHASSIS  
COLUMNS (SUPPORTS)  
FRAMES  
PYLONS



STRYCHNINE

SUPPORTS  
TRUSSES  
STRYCHNINE  
0405 0409 0412  
BT #POISONS  
RT ALKALOIDS  
STIMULANT  
STUDENTS  
0410 0502 3406  
UP TRAINEES  
RT #EDUCATION  
INSTRUCTORS  
#LEARNING  
UNIVERSITIES  
STUDIES  
USE #INVESTIGATION  
STUDS (STRUCTURAL MEMBERS)  
1504  
RT ANCHORS (FASTENERS)  
BOLTS  
COLUMNS (SUPPORTS)  
#FASTENERS  
HOLDERS  
LUGS  
PINS  
SCREWS  
WALLS  
STURM-LIOUVILLE OPERATOR  
USE STURM-LIOUVILLE THEORY  
STURM-LIOUVILLE THEORY  
1902 2311  
UP STURM-LIOUVILLE OPERATOR  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS  
LAMB WAVES  
LAMB WAVE EQUATIONS  
THEORIES  
STYLUSES  
USE PENS  
STYRENES  
1808 1810  
NT POLYSTYRENE  
RT BUNA (TRADEMARK)  
STYROFOAM (TRADEMARK)  
1808 1809 1810  
SUBARCTIC REGIONS  
1305 1308 2003  
BT #REGIONS  
RT ARCTIC REGIONS  
SUBASSEMBLIES  
1504 2806  
UP SUBCIRCUITS  
BT ASSEMBLIES  
RT ACCESSORIES  
COMPONENTS  
SUBAUDIBLE FREQUENCIES  
2301  
BT #FREQUENCIES  
FREQUENCY RANGES  
LOW FREQUENCIES  
RADIO FREQUENCIES  
#RANGE (EXTREMES)  
RT FREQUENCY DISTRIBUTION  
HARMONICS  
ZERO SOUND  
SUBCARRIER WAVES  
USE CARRIER WAVES  
SUBCIRCUITS  
USE #CIRCUITS  
SUBASSEMBLIES  
SUBCONTRACTS  
1106 3401 3402 3406 3409  
BT CONTRACTS  
RT AGREEMENTS  
CONTRACT MANAGEMENT  
CONTRACT NEGOTIATION  
CONTRACTORS  
ESTIMATES  
GRANTS  
OPTIONS  
PROCUREMENT  
SUBCOOLING  
USE SUPERCOOLING  
SUBCRITICAL FLOW  
1202 1203  
BT #FLOID FLOW  
RT CRITICAL FLOW  
FLOW CHARACTERISTICS  
GAS FLOW  
LIQUID FLOW  
MULTIPHASE FLOW

ORIFICE FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
STEAM FLOW  
SUPERCRITICAL FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
SUBCRITICAL MASS  
2311 2405  
BT #MASS  
RT CRITICAL MASS  
NUCLEAR FISSION  
#NUCLEAR REACTIONS  
SUBDIVISIONS  
3406  
RT DIVISION  
GROUPS  
SECTIONS  
SET THEORY  
SUBGROUPS  
SUBSIDIARIES  
SUBDWARF STARS  
3001 3002  
BT #CELESTIAL BODIES  
DWARF STARS  
STARS  
RT MAIN SEQUENCE STARS  
WHITE DWARF STARS  
SUBGRAVITY  
USE REDUCED GRAVITY  
SUBGROUPS  
1902  
UP SUBLATTICES  
BT #ALGEBRA  
GROUP THEORY  
HOMOMORPHISMS  
RT MATRICES (MATHEMATICS)  
#NUMBER THEORY  
PROBABILITY THEORY  
SET THEORY  
SUBDIVISIONS  
SUBHARMONIC GENERATORS  
0701 0905 1601  
RT DAMPING  
GENERATORS  
HARMONIC GENERATORS  
HARMONIC OSCILLATORS  
HARMONICS  
#OSCILLATORS  
SIGNAL GENERATORS  
#STIMULATED EMISSION DEVICES  
SUBIC PROJECT  
USE SUBMARINE INTEGRATED CONTROL  
PROJECT  
SUBJECTS  
3405  
BT #CLASSIFICATIONS  
RT HANDBOOKS  
INFORMATION RETRIEVAL  
TEXTBOOKS  
SUBLATTICES  
USE LATTICES (MATHEMATICS)  
SUBGROUPS  
SUBLAYERS  
USE SUBSTRATES  
SUBLETHAL DOSAGE  
0405 0412  
BT DOSAGE  
RT #DRUGS  
SUBLIMATION  
0602 0603 1203 2603  
BT #PHASE TRANSFORMATIONS  
VAPORIZING  
RT ABLATION  
BENEFICIATION  
CONDENSING  
CRYSTALLIZATION  
DESORPTION  
#DIFFUSION  
EVAPORATION  
GAS-METAL INTERACTIONS  
GAS-SOLID INTERFACES  
PURIFICATION  
PYROMETALLURGY  
REFINING  
SEPARATION  
VAPOR PRESSURE  
SUBLIMINAL STIMULI  
0408 0410

NASA THESAURUS (ALPHABETICAL LISTING)

RT #PSYCHOLOGY  
SENSORY STIMULATION  
STIMULI  
SUBMARINE CABLES  
0701 0702  
BT #TRANSMISSION LINES  
RT CABLES  
COAXIAL CABLES  
COMMUNICATION CABLES  
POWER LINES  
SUBMARINE INTEGRATED CONTROL PROJECT  
2102 2103  
UP SUBIC PROJECT  
BT #PROGRAMS  
PROJECTS  
SUBMARINE PROPULSION  
3401  
BT MARINE PROPULSION  
#PROPULSION  
UNDERWATER PROPULSION  
SUBMARINES  
0506 1104 1204 2103 3401  
UP NUCLEAR SUBMARINES  
RT BALLISTIC MISSILE SUBMARINES  
GUIDED MISSILE SUBMARINES  
BT SHIPS  
UNDERWATER VEHICLES  
#WATER VEHICLES  
RT ANTISUBMARINE WARFARE  
MILITARY VEHICLES  
NUCLEAR POWERED SHIPS  
SHIP HULLS  
SUBMERGED BODIES  
SUBMERGED BODIES  
1202 1310 1702 3203  
NT DIVING (UNDERWATER)  
RT SUBMARINES  
TORPEDOES  
TOWED BODIES  
UNDERWATER ENGINEERING  
UNDERWATER PHOTOGRAPHY  
UNDERWATER STRUCTURES  
UNDERWATER VEHICLES  
SUBMERGING  
1202 1310 2311 3203  
UP IMMERSION  
RT BATHS  
DIPPING  
QUENCHING (COOLING)  
SINKING  
SOAKING  
WEIGHTLESSNESS SIMULATION  
WETTING  
SUBMERSIBLE AIRCRAFT  
0207  
RT ANTISUBMARINE WARFARE AIRCRAFT  
LIGHT AIRCRAFT  
MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT  
SUBMILLIMETER WAVES  
0710 2309 2402  
(BELOW 1 MILLIMETER)  
BT #ELECTROMAGNETIC RADIATION  
RADIO WAVES  
SHORT WAVE RADIATION  
RT #BEAMS (RADIATION)  
ELECTROMAGNETIC NOISE  
FAR INFRARED RADIATION  
#FREQUENCIES  
MICROWAVES  
MILLIMETER WAVES  
WAVELENGTHS  
SUBMINIATURIZATION  
1002 3404  
BT #MINIATURIZATION  
RT ELECTRONIC MODULES  
MICROMINIATURIZATION  
MINIATURE ELECTRONIC EQUIPMENT  
PRINTED CIRCUITS  
SUBORBITAL FLIGHT  
3009 3110 3409  
RT FLIGHT  
MANNED SPACE FLIGHT  
#ORBITS  
PARABOLIC FLIGHT  
ROCKET FLIGHT  
#SPACE FLIGHT  
WEIGHTLESSNESS  
SUBREFLECTORS  
2306 2310

# NASA THESAURUS (ALPHABETICAL LISTING)

RT CASSEGRAIN ANTENNAS  
#REFLECTORS  
SUBROC MISSILE  
3101 3401  
BT BALLISTIC MISSILES  
FIELD ARMY BALLISTIC MISSILES  
FLEET BALLISTIC MISSILES  
#MISSILES  
SURFACE TO SURFACE MISSILES  
RT UNDERWATER TRAJECTORIES  
SUBROUTINE LIBRARIES (COMPUTERS)  
0802  
BT #COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
RT SUBROUTINES  
UTILITY PROGRAMS  
SUBROUTINES  
0802 0803  
BT #COMPUTER PROGRAMS  
RT COMPILERS  
SUBROUTINE LIBRARIES (COMPUTERS)  
SUBSETS (MATHEMATICS)  
USE SET THEORY  
SUBSIDENCE  
0603 1305 1306  
RT ISOSTASY  
MINES (EXCAVATIONS)  
SETTLING  
SUBSIDIARIES  
3406  
RT SUBDIVISIONS  
SUBSONIC AIRCRAFT  
0201 0204 0207  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT FLYING PLATFORMS  
GENERAL AVIATION AIRCRAFT  
GETOL AIRCRAFT  
#GLIDERS  
GROUND EFFECT MACHINES  
HELICOPTERS  
#JET AIRCRAFT  
LIGHT AIRCRAFT  
PARAGLIDERS  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TANDEM WING AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TRAINING AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
UTILITY AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT  
SUBSONIC FLOW  
1201 1202 1203 2301  
RT AERODYNAMICS  
COMPRESSIBLE FLOW  
FLOW VELOCITY  
GAS FLOW  
INCOMPRESSIBLE FLOW  
KARMAN VORTEX STREET  
SUBSONIC WIND TUNNELS  
TRANSONIC FLOW  
SUBSONIC FLUTTER  
0101 0102 0104 1203  
BT FLUTTER  
SELF INDUCED VIBRATION  
STRUCTURAL VIBRATION  
#VIBRATION  
RT TRANSONIC FLUTTER  
SUBSONIC SPEED  
0101 1202 2301 2308  
BT #RATES (PER TIME)  
VELOCITY  
RT ACOUSTIC VELOCITY  
LOW SPEED  
TRANSONIC SPEED  
SUBSONIC WIND TUNNELS  
1108 1110  
BT LOW SPEED WIND TUNNELS  
#TEST FACILITIES  
WIND TUNNELS  
RT BLOWDOWN WIND TUNNELS  
RECTANGULAR WIND TUNNELS  
SUBSONIC FLOW  
SUPERSONIC WIND TUNNELS  
TRANSONIC WIND TUNNELS

SUBSTANCES  
USE MATERIALS  
SUBSTITUTES  
2309 3407  
UF SUBSTITUTION  
RT ALTERNATIVES  
REPLACING  
#VARIATIONS  
SUBSTITUTION  
USE SUBSTITUTES  
SUBSTRATES  
1305 1308 3203  
UF SUBLAYERS  
BT STRATA  
RT #COATINGS  
LAMINATES  
LAYERS  
METALLIZING  
PLATING  
PRIMERS (COATINGS)  
SUBSTRUCTURES  
2404 2601 3203  
RT FLOORS  
FOUNDATIONS  
STRUCTURAL DESIGN  
#STRUCTURAL MEMBERS  
STRUCTURES  
SUPPORTS  
UNDERCARRIAGES  
WALLS  
SUBTRACTION  
1902  
BT #NUMBER THEORY  
RT ARITHMETIC  
#COMPUTATION  
SUBTRACTORS  
USE ADDING CIRCUITS  
SUBTROPICAL REGIONS  
USE TEMPERATE REGIONS  
TROPICAL REGIONS  
SUBZERO TEMPERATURE  
3304  
BT #TEMPERATURE  
RT ATMOSPHERIC TEMPERATURE  
COLD ACCLIMATIZATION  
COLD TOLERANCE  
COLD WEATHER  
SUCCESS PROJECT  
3401  
BT #PROGRAMS  
PROJECTS  
#WEAPON SYSTEMS  
SUCCINIMIDES  
0403 1808  
BT AMIDES  
IMIDES  
#NITROGEN COMPOUNDS  
SUCROSE  
0403 0505 1808  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
SUGARS  
SUCTION  
1202 1506  
RT EVACUATING (VACUUM)  
PRESSURE EFFECTS  
PRESSURE GRADIENTS  
VACUUM  
#VACUUM APPARATUS  
VACUUM PUMPS  
#SUD AVIATION AIRCRAFT  
0204 0206  
RT ALOUETTE HELICOPTERS  
CONCORDE AIRCRAFT  
GY-80 AIRCRAFT  
SA-330 HELICOPTER  
SA-3210 HELICOPTER  
SE-210 AIRCRAFT  
SE-3160 HELICOPTER  
VJ-101 AIRCRAFT  
RT AIRCRAFT  
SUD AVIATION GY-80 AIRCRAFT  
USE GY-80 AIRCRAFT  
SUD AVIATION SA-330 HELICOPTER  
USE SA-330 HELICOPTER  
SUD AVIATION SA-3210 HELICOPTER  
USE SA-3210 HELICOPTER  
SUD AVIATION SE-210 AIRCRAFT  
USE SE-210 AIRCRAFT  
SUD AVIATION SE-3160 HELICOPTER  
USE SE-3160 HELICOPTER

## SULFIDES

SUD VJ-101 AIRCRAFT  
USE VJ-101 AIRCRAFT  
SUDDEN ENHANCEMENT OF ATMOSPHERICS  
0704 1302 2003 2304  
BT ATMOSPHERICS  
BLACKOUT (PROPAGATION)  
#ELECTROMAGNETIC INTERFERENCE  
ELECTROMAGNETIC NOISE  
RADIO FREQUENCY INTERFERENCE  
RT SUDDEN IONOSPHERIC DISTURBANCES  
SUDDEN IONOSPHERIC DISTURBANCES  
0704 1302 2003 2304  
UF GEOMAGNETIC CROTCHETS  
SID (IONOSPHERIC DISTURBANCES)  
BT #IONOSPHERIC DISTURBANCES  
IONOSPHERIC STORMS  
#STORMS  
RT DISTURBANCES  
MAGNETIC DISTURBANCES  
MAGNETIC STORMS  
SOLAR ACTIVITY EFFECTS  
SUDDEN ENHANCEMENT OF ATMOSPHERICS  
TRAVELING IONOSPHERIC DISTURBANCES  
SUGARS  
0403 0505 1808  
RT DEIXTRANS  
GALACTOSE  
GLUCOSE  
HEXOSES  
INOSITOLS  
LACTOSE  
MANNITOL  
MONOSACCHARIDES  
PENTOSE  
RIBOSE  
SUCROSE  
XYLOSE  
BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
RT FOOD  
SUGGESTION  
0408 0410  
BT RECOMMENDATIONS  
SUHL EFFECT  
2302 2307 2602  
RT CARRIER INJECTION  
EFFECTS  
ELECTRONS  
EXCITONS  
HOLES (ELECTRON DEFICIENCIES)  
#MAGNETIC FIELDS  
N-TYPE SEMICONDUCTORS  
#RECOMBINATION REACTIONS  
SUITABILITY  
3408  
RT COMPATIBILITY  
SUITS  
0508 3305  
RT PRESSURE SUITS  
SPACE SUITS  
BT #CLOTHING  
RT GARMENTS  
SULFATES  
0603 1805  
RT ALUM  
AMMONIUM SULFATES  
BARITE  
HEXAHEDRITE  
HYDROXYLAMINE SULFATE  
LITHIUM SULFATES  
MAGNESIUM SULFATES  
BT #SULFUR COMPOUNDS  
RT GYPSUM  
SULFURIC ACID  
SULFATION  
0602 0603  
BT #CHEMICAL REACTIONS  
RT HYDROMETALLURGY  
SULFIDES  
1704 1804 1808  
RT BARIUM SULFIDES  
BISMUTH SULFIDES  
CADMIUM SULFIDES  
CALCIUM SULFIDES  
CARBON DISULFIDE  
COPPER SULFIDES  
DISULFIDES  
ENARGITE  
HYDROGEN SULFIDE  
INDIUM SULFIDES  
INORGANIC SULFIDES  
LEAD SULFIDES

# SULFITES

MOLYBDENUM DISULFIDES  
 MOLYBDENUM SULFIDES  
 POLYSULFIDES  
 PYRITES  
 PYRRHOTITE  
 STRONTIUM SULFIDES  
 TROILITE  
 WURTZITE  
 ZINC SULFIDES  
 ZINCBLENDE  
 BT #CHALCOGENIDES  
 #SULFUR COMPOUNDS  
 RT THIOPLASTICS  
 SULFITES  
 0603 1804  
 NT HYDROSULFITES  
 SODIUM SULFITES  
 BT #SULFUR COMPOUNDS  
 SULFONATES  
 0602 0603  
 BT #SULFUR COMPOUNDS  
 SULFONES  
 0405 0603 1808  
 BT #SULFUR COMPOUNDS  
 SULFUR  
 1807  
 NT SULFUR ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 SULFUR CHLORIDES  
 0603 1804  
 BT CHLORIDES  
 CHLORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 #SULFUR COMPOUNDS  
 #SULFUR COMPOUNDS  
 0603  
 NT ALUM  
 AMMONIUM SULFATES  
 BARITE  
 BARIUM SULFIDES  
 BISMUTH SULFIDES  
 CADMIUM SULFIDES  
 CALCIUM SULFIDES  
 CARBON DISULFIDE  
 COPPER SULFIDES  
 CYSTEINE  
 DIMERCAPROL  
 DISULFIDES  
 ENARGITE  
 HEXAHEDRITE  
 HYDROGEN SULFIDE  
 HYDROSULFITES  
 HYDROXYLAMINE SULFATE  
 INDIUM SULFIDES  
 INORGANIC SULFIDES  
 LEAD SULFIDES  
 LITHIUM SULFATES  
 MAGNESIUM SULFATES  
 MOLYBDENUM DISULFIDES  
 MOLYBDENUM SULFIDES  
 ORGANIC SULFUR COMPOUNDS  
 POLYSULFIDES  
 PYRITES  
 PYRRHOTITE  
 SODIUM SULFITES  
 STRONTIUM SULFIDES  
 SULFATES  
 SULFIDES  
 SULFITES  
 SULFONATES  
 SULFONES  
 SULFUR CHLORIDES  
 SULFUR FLUORIDES  
 SULFUR OXIDES  
 SULFURIC ACID  
 THIAZINE (TRADEMARK)  
 THIOLS  
 TROILITE  
 WURTZITE  
 ZINC SULFIDES  
 ZINCBLENDE  
 RT GROUP 6A COMPOUNDS  
 SULFUR FLUORIDES  
 0603 1804 1805  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 #SULFUR COMPOUNDS  
 SULFUR ISOTOPES  
 0603 1805 1807

BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 SULFUR  
 SULFUR OXIDES  
 0603 1804 1805  
 BT #CHALCOGENIDES  
 OXIDES  
 #SULFUR COMPOUNDS  
 RT DIOXIDES  
 SULFURIC ACID  
 0603 1803  
 BT #ACIDS  
 #SULFUR COMPOUNDS  
 RT SULFATES  
 SUM RULES  
 1902  
 BT #RULES  
 RT SUMS  
 SUMMARIES  
 3405  
 NT ABSTRACTS  
 RT ANNOTATIONS  
 BIBLIOGRAPHIES  
 DOCUMENTATION  
 INDEXES (DOCUMENTATION)  
 INFORMATION DISSEMINATION  
 REPORTS  
 SUMMER  
 2001 2003  
 BT SEASONS  
 RT HOT WEATHER  
 SOLSTICES  
 SUMPS  
 0505 1202 1305 1504  
 RT DRAINAGE  
 PITS (EXCAVATIONS)  
 WASTE DISPOSAL  
 SUMS  
 1902  
 RT #ALGEBRA  
 ARITHMETIC  
 #COMPUTATION  
 SERIES (MATHEMATICS)  
 SUM RULES  
 SUN  
 1308 3009  
 UF SOLAR DISK  
 BT #CELESTIAL BODIES  
 STARS  
 RT CELESTIAL MECHANICS  
 LIGHT SOURCES  
 PHOTOSPHERE  
 PLANETS  
 SOLAR ACTIVITY  
 SOLAR ATMOSPHERE  
 SOLAR CORPUSCULAR RADIATION  
 SOLAR CYCLES  
 SOLAR GRAVITATION  
 SOLAR LIMB  
 SOLAR POSITION  
 SOLAR RADAR ECHOES  
 SOLAR RADIATION  
 SOLAR ROTATION  
 SOLAR SPECTRA  
 SOLAR SYSTEM  
 SOLAR VELOCITY  
 SUNLIGHT  
 SUN SENSORS  
 USE SOLAR SENSORS  
 SUBBLAZER SPACE PROBE  
 3108  
 BT SOLAR PROBES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 RT MULTISTAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
 SUNDERLAND 5 FLYING BOAT  
 0207  
 BT MONOPLANES  
 OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 SHORT AND HARLAND AIRCRAFT  
 WATER TAKEOFF AND LANDING AIRCRAFT  
 RT ANTISUBMARINE WARFARE AIRCRAFT  
 SUNFLOWER POWER SYSTEM  
 0301 0303 2201 2902 3107 3108  
 RT SUNFLOWER 1  
 BT #AUXILIARY POWER SOURCES  
 #ELECTRIC GENERATORS  
 SOLAR AUXILIARY POWER UNITS  
 SOLAR GENERATORS  
 RT SOLAR COLLECTORS

# NASA THESAURUS (ALPHABETICAL LISTING)

TURBOGENERATORS  
 SUNFLOWER 1  
 2201 3004 3007 3108  
 BT #AUXILIARY POWER SOURCES  
 #ELECTRIC GENERATORS  
 SOLAR AUXILIARY POWER UNITS  
 SOLAR GENERATORS  
 SUNFLOWER POWER SYSTEM  
 RT AC GENERATORS  
 ASTEC SOLAR TURBOELECTRIC GENERATOR  
 SOLAR COLLECTORS  
 TURBOGENERATORS  
 SUNGLASSES  
 0508  
 RT EYE PROTECTION  
 EYEPIECES  
 GOGGLES  
 OPTICAL FILTERS  
 VISORS  
 SUNLIGHT  
 2306 2902 3303  
 BT #ELECTROMAGNETIC RADIATION  
 #EXTRATERRESTRIAL RADIATION  
 LIGHT (VISIBLE RADIATION)  
 SOLAR RADIATION  
 RT BLACK BODY RADIATION  
 CLIMATOLOGY  
 CLOUD COVER  
 INFRARED RADIATION  
 INSOLATION  
 SKY  
 SKY BRIGHTNESS  
 SKY RADIATION  
 SOLAR HEATING  
 SUN  
 THERMAL RADIATION  
 ULTRAVIOLET RADIATION  
 UNKEHR EFFECT  
 ZODIACAL LIGHT  
 SUNRISE  
 1302 1901 2003 3001  
 RT MORNING  
 SUNSET  
 TERMINATOR LINES  
 SUNSET  
 1901 2003 3001  
 RT EVENING  
 SUNRISE  
 TERMINATOR LINES  
 SUNSPOT CYCLE  
 2003 2902 3001  
 BT #CYCLES  
 SOLAR CYCLES  
 RT SOLAR ACTIVITY  
 SUNSPOTS  
 2902 3001  
 BT SOLAR ACTIVITY  
 RT FACULAE  
 MAGNETIC DISTURBANCES  
 PHOTOSPHERE  
 SOLAR CYCLES  
 SOLAR FLARES  
 TWENTY-SEVEN DAY VARIATION  
 SUPER FORTRESS AIRCRAFT  
 USE RB-50 AIRCRAFT  
 SUPER SABRE AIRCRAFT  
 USE F-100 AIRCRAFT  
 SUPERALLOYS  
 USE HEAT RESISTANT ALLOYS  
 SUPERCAVITATING FLOW  
 0101 0102 1202 1203  
 UF SUPERCAVITATION  
 BT #FLUID FLOW  
 TURBULENT FLOW  
 RT CAVITATION FLOW  
 HYDROFOIL OSCILLATIONS  
 SUPERCAVITATION  
 USE SUPERCAVITATING FLOW  
 SUPERCHARGERS  
 0201 0202 1504 2801 2805 2808  
 UF SUPERCHARGING  
 TURBOCHARGERS  
 TURBOSUPERCHARGERS  
 BT COMPRESSORS  
 RT AIR INTAKES  
 BLOWERS  
 CENTRIFUGAL COMPRESSORS  
 COMPRESSING  
 INTERNAL COMBUSTION ENGINES  
 TURBOCOMPRESSORS  
 #TURBOMACHINERY

# NASA THESAURUS (ALPHABETICAL LISTING)

## SUPERCHARGING

USE SUPERCHARGERS  
 SUPERCONDUCTING MAGNETS  
 1704 2302 2304 2307 2604

BT ELECTROMAGNETS

#MAGNETS

RT CRYOGENIC MAGNETS

FLUX PUMPS

HIGH FIELD MAGNETS

MAGNET COILS

## SUPERCONDUCTIVITY

1002 2302 2303 2304 2603

UF MEISSNER EFFECT

BT #ELECTRICAL PROPERTIES

ELECTRICAL RESISTIVITY

#TRANSPORT PROPERTIES

RT ABRISKOSOV THEORY

BCS THEORY

CONDUCTIVITY

CRYOGENICS

CRYOTRONS

ELECTRON PHONON INTERACTIONS

ELECTRON TUNNELING

FLUX PUMPS

JOSEPHSON JUNCTIONS

LANDAU-GINZBURG EQUATIONS

LOW TEMPERATURE PHYSICS

SOLID STATE PHYSICS

TRANSITION TEMPERATURE

TRAPPED MAGNETIC FIELDS

VECTOR CURRENTS

VORTICES

## SUPERCONDUCTORS

1002 2302 2303 2603

BT #CONDUCTORS

RT ABRISKOSOV THEORY

CARRIER MOBILITY

CRYOGENIC COMPUTER STORAGE

CRYOTRONS

ELECTRON GAS

ENERGY STORAGE

SOLID STATE DEVICES

THERMODYNAMIC COUPLING

## SUPERCOOLING

0602 1803 2303 3303

UF SUBCOOLING

BT #COOLING

RT AGING (METALLURGY)

CONDENSING

CRYSTALLIZATION

#HEAT TREATMENT

#MECHANICAL PROPERTIES

NUCLEATION

QUENCHING (COOLING)

SUPERSATURATION

## SUPERCritical FLOW

1202 1203

BT #FLUID FLOW

RT CRITICAL FLOW

FLOW CHARACTERISTICS

GAS FLOW

LIQUID FLOW

MULTIPHASE FLOW

ORIFICE FLOW

PIPE FLOW

PRESSURE GRADIENTS

SINGLE-PHASE FLOW

STEADY FLOW

STEAM FLOW

SUBCRITICAL FLOW

TURBULENT FLOW

UNSTEADY FLOW

## SUPERCritical PRESSURES

0603 1203 1408

BT #PRESSURE

#THERMODYNAMIC PROPERTIES

THERMOPHYSICAL PROPERTIES

RT CRITICAL PRESSURE

HIGH PRESSURE

LIQUID PHASES

VAPOR PHASES

VAPOR PRESSURE

## SUPERCritical WINGS

0104

BT #AIRFOILS

WINGS

RT WING PROFILES

WINGED VEHICLES

## SUPERFLUID FLOW

USE SUPERFLUIDITY

## SUPERFLUIDITY

1202 1203

UF SUPERFLUID FLOW

RT COMPRESSIBLE FLUIDS

FLUIDS

INCOMPRESSIBLE FLUIDS

LIQUID HELIUM

MANY BODY PROBLEM

QUANTUM STATISTICS

TWO FLUID MODELS

VISCOSITY

VORTICES

## SUPERGIANT STARS

3001 3009

BT #CELESTIAL BODIES

STARS

RT GIANT STARS

## SUPERHARMONICS

0710 2301 2309 2312

BT HARMONICS

RT #CYCLES

#FREQUENCIES

MACH NUMBER

SUPERSONIC WIND TUNNELS

SUPERSONICS

## SUPERHEATING

0602 3303

BT #HEATING

RT STEAM

## SUPERHETERODYNE RECEIVERS

0701 0905

BT #COMMUNICATION EQUIPMENT

#RADIO EQUIPMENT

RADIO RECEIVERS

RECEIVERS

RT BEAT FREQUENCIES

HETERODYNING

## SUPERHIGH FREQUENCIES

0705 2309

(3 TO 30 GHZ)

UF KU BAND

S BAND

X BAND

BT #FREQUENCIES

MICROWAVE FREQUENCIES

RADIO FREQUENCIES

RT C BAND

UNIFIED S BAND

## SUPERIMPOSITION (MATHEMATICS)

USE SUPERPOSITION (MATHEMATICS)

## SUPERMAGNETS

USE HIGH FIELD MAGNETS

## SUPERNOVAE

3001 3003

BT #CELESTIAL BODIES

STARS

VARIABLE STARS

RT CRAB NEBULA

GRAVITATIONAL COLLAPSE

NEBULAE

NOVAE

OPIK THEORY

STELLAR MASS

STELLAR MASS EJECTION

## SUPEROXIDES

USE INORGANIC PEROXIDES

## SUPERPOSITION (MATHEMATICS)

1902 2301 2309 2310

UF SUPERIMPOSITION (MATHEMATICS)

RT MATHEMATICS

## SUPERSATURATION

0602 0603 2601

RT CONDENSING

CRYSTALLIZATION

#HEAT TREATMENT

MAYER PROBLEM

PRECIPITATION (CHEMISTRY)

PRECIPITATION HARDENING

QUENCHING (COOLING)

SOLID SOLUTIONS

SUPERCOOLING

## #SUPERSONIC AIRCRAFT

0201 0204

(AIRCRAFT DESIGNED TO FLY AT SPEEDS

ABOVE MACH 1 AND BELOW MACH 5)

UF SUPERSONIC STRIKE AIRCRAFT

TRANSONIC AIRCRAFT

RT A-5 AIRCRAFT

BOEING 733 AIRCRAFT

BOEING 2707 AIRCRAFT

CL-823 AIRCRAFT

CONCORDE AIRCRAFT

D-558 AIRCRAFT

F-14 AIRCRAFT

# SUPERSONIC COMPRESSORS

F-15 AIRCRAFT

F-100 AIRCRAFT

F-101 AIRCRAFT

F-102 AIRCRAFT

F-104 AIRCRAFT

F-106 AIRCRAFT

F-111 AIRCRAFT

FIREBEE 2 TARGET DRONE AIRCRAFT

G-95/4 AIRCRAFT

JAGUAR AIRCRAFT

MIRAGE 3 AIRCRAFT

NORD 1500 AIRCRAFT

P-1154 AIRCRAFT

SAAB 37 AIRCRAFT

SUPERSONIC COMMERCIAL AIR TRANSPORT

SUPERSONIC TRANSPORTS

TSR-2 AIRCRAFT

TU-144 AIRCRAFT

VJ-101 AIRCRAFT

X-1 AIRCRAFT

X-2 AIRCRAFT

X-3 AIRCRAFT

X-15 AIRCRAFT

BT

AIRCRAFT

ATTACK AIRCRAFT

FIGHTER AIRCRAFT

HYPERSONIC AIRCRAFT

#JET AIRCRAFT

PASSENGER AIRCRAFT

RECONNAISSANCE AIRCRAFT

RESEARCH AIRCRAFT

SUBSONIC AIRCRAFT

SUPERSONIC FLIGHT

SUPERSONICS

SWEPTBACK WINGS

#TRANSPORT AIRCRAFT

TRAPEZOIDAL TAIL SURFACES

## SUPERSONIC AIRFOILS

0101 0102 0104 0201

BT

#AIRFOILS

RT

SWEPTBACK

SWEPTBACK TAIL SURFACES

SWEPTBACK WINGS

## SUPERSONIC BOUNDARY LAYERS

0101 1202

BT

BOUNDARY LAYERS

RT

#FLUID FLOW

LAMINAR BOUNDARY LAYER

SUPERSONIC FLIGHT

SUPERSONIC FLOW

SUPERSONICS

TURBULENT BOUNDARY LAYER

## SUPERSONIC COMBUSTION

2801 2805 3301

BT

#COMBUSTION

RT

#ENGINES

FUEL COMBUSTION

SUPERSONIC COMBUSTION RAMJET

ENGINES

## SUPERSONIC COMBUSTION RAMJET ENGINES

2805 3101

UF

SCRAMJET ENGINES

SCRAMJETS

SUPERSONIC COMBUSTION RAMJET

MISSILE

BT

AIR BREATHING ENGINES

#ENGINES

GAS TURBINE ENGINES

INTERNAL COMBUSTION ENGINES

JET ENGINES

RAMJET ENGINES

TURBINE ENGINES

RT

#MISSILES

RAMJET MISSILES

SCRAM

SUPERSONIC COMBUSTION

## SUPERSONIC COMBUSTION RAMJET MISSILE

USE

RAMJET MISSILES

SUPERSONIC COMBUSTION RAMJET

ENGINES

## SUPERSONIC COMMERCIAL AIR TRANSPORT

0204

UF

SCAT

NT

BOEING 2707 AIRCRAFT

# SUPERSONIC DIFFUSERS

SUPERSONIC FLOW  
 SUPERSONIC INLETS  
 SUPERSONIC TURBINES  
 TRANSONIC COMPRESSORS  
 TURBOCOMPRESSORS  
 SUPERSONIC DIFFUSERS  
 1203 2801 2805  
 RT AIR INTAKES  
 DIFFUSERS  
 EXHAUST DIFFUSERS  
 FLOW STABILITY  
 SUPERSONIC FLOW  
 VANELESS DIFFUSERS  
 SUPERSONIC DRAG  
 0101 0102 0204 1203  
 BT #AERODYNAMIC CHARACTERISTICS  
 AERODYNAMIC DRAG  
 #AERODYNAMIC FORCES  
 DRAG  
 #DYNAMIC CHARACTERISTICS  
 FLOW RESISTANCE  
 #FRICTION  
 FRICTION DRAG  
 PRESSURE DRAG  
 SKIN FRICTION  
 RT INTERFERENCE DRAG  
 WAVE DRAG  
 SUPERSONIC FLIGHT  
 0101 0201 0204  
 RT FLIGHT  
 HYPERSONIC FLIGHT  
 MACH CONES  
 #MISSILES  
 ROCKET FLIGHT  
 SONIC BOOMS  
 #SUPERSONIC AIRCRAFT  
 SUPERSONIC BOUNDARY LAYERS  
 SUPERSONIC FLOW  
 SUPERSONICS  
 TRANSONIC FLIGHT  
 SUPERSONIC FLOW  
 0101 0204 1110 1202  
 UP SUPERSONIC PRESSURE DISTRIBUTION  
 RT AERODYNAMICS  
 COMPRESSIBILITY EFFECTS  
 COMPRESSIBLE FLOW  
 FLOW VELOCITY  
 GAS FLOW  
 HYPERSONIC FLOW  
 HYPERVELOCITY FLOW  
 MACH CONES  
 PRANDTL-HEYER EXPANSION  
 SECONDARY INJECTION  
 SHOCK WAVES  
 SUPERSONIC BOUNDARY LAYERS  
 SUPERSONIC COMPRESSORS  
 SUPERSONIC DIFFUSERS  
 SUPERSONIC FLIGHT  
 SUPERSONIC INLETS  
 SUPERSONIC JET FLOW  
 SUPERSONIC NOZZLES  
 SUPERSONIC WIND TUNNELS  
 SUPERSONICS  
 TRANSONIC FLOW  
 WEDGE FLOW  
 WIND TUNNELS  
 SUPERSONIC FLOW INLETS  
 USE SUPERSONIC INLETS  
 SUPERSONIC FLUTTER  
 0101 0102 0104 1202 1203  
 BT FLUTTER  
 SELF INDUCED VIBRATION  
 STRUCTURAL VIBRATION  
 #VIBRATION  
 RT MISSILE VIBRATION  
 TRANSONIC FLUTTER  
 SUPERSONIC HEAT TRANSFER  
 3303  
 BT AERODYNAMIC HEAT TRANSFER  
 HEAT TRANSFER  
 HEAT TRANSMISSION  
 #TRANSMISSION  
 RT HYPERSONIC HEAT TRANSFER  
 SUPERSONICS  
 SUPERSONIC INLETS  
 1110 1202 1203  
 UP SUPERSONIC FLOW INLETS  
 TRANSONIC INLETS  
 BT AIR INTAKES  
 #INTAKE SYSTEMS  
 RT HYPERSONIC INLETS  
 INLET FLOW

INTERNAL COMPRESSION INLETS  
 NOSE INLETS  
 SIDE INLETS  
 SUPERSONIC COMPRESSORS  
 SUPERSONIC FLOW  
 SUPERSONIC JET FLOW  
 SUPERSONIC JET FLOW  
 0101 0103 1202  
 BT #FLUID FLOW  
 JET FLOW  
 RT GAS FLOW  
 NOZZLE FLOW  
 SUPERSONIC FLOW  
 SUPERSONIC INLETS  
 SUPERSONIC NOZZLES  
 1201 2805 2806 2808 3106  
 RT CONICAL NOZZLES  
 CONVERGENT-DIVERGENT NOZZLES  
 HYPERSONIC NOZZLES  
 NOZZLES  
 ROCKET NOZZLES  
 SONIC NOZZLES  
 SUPERSONIC FLOW  
 TRANSONIC NOZZLES  
 WIND TUNNEL NOZZLES  
 SUPERSONIC PRESSURE DISTRIBUTION  
 USE PRESSURE DISTRIBUTION  
 SUPERSONIC FLOW  
 SUPERSONIC SPEEDS  
 0101 1202 1203 2311  
 UP ULTRASONIC SPEEDS  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT ACOUSTIC VELOCITY  
 HIGH SPEED  
 HYPERSONIC SPEED  
 HYPERSONICS  
 SUPERSONICS  
 TRANSONIC SPEED  
 SUPERSONIC STRIKE AIRCRAFT  
 USE ATTACK AIRCRAFT  
 #SUPERSONIC AIRCRAFT  
 SUPERSONIC TEST APPARATUS  
 1110 1202  
 RT HYPERSONIC TEST APPARATUS  
 SUPERSONIC WIND TUNNELS  
 SUPERSONICS  
 TEST EQUIPMENT  
 WIND TUNNEL APPARATUS  
 SUPERSONIC TRANSPORTS  
 0204  
 RT BOEING 2707 AIRCRAFT  
 CL-823 AIRCRAFT  
 CONCORDE AIRCRAFT  
 SUPERSONIC COMMERCIAL AIR TRANSPORT  
 BT #SUPERSONIC AIRCRAFT  
 RT #COMMERCIAL AIRCRAFT  
 PASSENGER AIRCRAFT  
 SUPERSONIC TURBINES  
 0202 1203 1504 2805  
 UP TRANSONIC TURBINES  
 BT TURBINES  
 #TURBOMACHINERY  
 RT GAS TURBINE ENGINES  
 GAS TURBINES  
 SUPERSONIC COMPRESSORS  
 SUPERSONIC WAKES  
 0101 0102 0104 1202 1203  
 BT #WAKES  
 RT AIRCRAFT WAKES  
 HYPERSONIC WAKES  
 SUPERSONIC WIND TUNNELS  
 0101 0102 1108 1110 1202  
 (MACH 1.5 TO 5.0)  
 BT #TEST FACILITIES  
 WIND TUNNELS  
 RT BLOWDOWN WIND TUNNELS  
 HYPERVELOCITY WIND TUNNELS  
 LOW DENSITY WIND TUNNELS  
 SHOCK TUNNELS  
 SLOTTED WIND TUNNELS  
 SUBSONIC WIND TUNNELS  
 SUPERHARMONICS  
 SUPERSONIC FLOW  
 SUPERSONIC TEST APPARATUS  
 TRANSONIC WIND TUNNELS  
 SUPERSONICS  
 0101 0102 0205 1110 1202 1203 1308  
 BT AERODYNAMICS  
 FLUID DYNAMICS  
 #FLUID MECHANICS  
 GAS DYNAMICS

# NASA TREASURY (ALPHABETICAL LISTING)

RT AEROTHERMODYNAMICS  
 GAS DYNAMICS  
 HYPERSONICS  
 MACH CONES  
 SUPERHARMONICS  
 #SUPERSONIC AIRCRAFT  
 SUPERSONIC BOUNDARY LAYERS  
 SUPERSONIC FLIGHT  
 SUPERSONIC FLOW  
 SUPERSONIC HEAT TRANSFER  
 SUPERSONIC SPEEDS  
 SUPERSONIC TEST APPARATUS  
 SUPINE POSITION  
 0401 0502 0506  
 RT ACCELERATION PROTECTION  
 CHAMPTON TEST  
 PRONE POSITION  
 REST  
 SITTING POSITION  
 SUPPLEMENTS  
 3402 3404 3406  
 BT #DOCUMENTS  
 RT CONTRACTS  
 EXTENSIONS  
 INDEXES (DOCUMENTATION)  
 MOTION PICTURES  
 RECORDS  
 REPORTS  
 SUPPLYING  
 1202 3402 3404  
 RT COMMERCE  
 CONSUMPTION  
 DEMAND (ECONOMICS)  
 FILLING  
 #INJECTION  
 INPUT  
 MARKETING  
 OUTPUT  
 SUPPORT INTERFERENCE  
 0705 0710 2402  
 RT ANTENNA RADIATION PATTERNS  
 INTERFERENCE  
 SUPPORTS  
 VIBRATION EFFECTS  
 SUPPORT SYSTEMS  
 0507 1101 1102 1109 3409  
 RT GROUND OPERATIONAL SUPPORT SYSTEM  
 GROUND SUPPORT SYSTEMS  
 PORTABLE LIFE SUPPORT SYSTEMS  
 RT LIFE SUPPORT SYSTEMS  
 SELF SEALING  
 SERVICES  
 SYSTEMS  
 SUPPORTS  
 1501 1504 3202  
 UP MOUNTS  
 STANDS  
 RT PYLONS  
 SADDLES (SUPPORTS)  
 TRIPODS  
 RT #BEARINGS  
 CARRIAGES  
 CHASSIS  
 FOUNDATIONS  
 FRAMES  
 GIMBALS  
 HEADERS  
 LOGS  
 PIVOTS  
 PLATFORMS  
 Pylon MOUNTING  
 RACKS (FRAMES)  
 REINFORCEMENT (STRUCTURES)  
 SHAFTS (MACHINE ELEMENTS)  
 STRUTS  
 SUBSTRUCTURES  
 SUPPORT INTERFERENCE  
 SUSTAINING  
 TRUSSES  
 SUPPRESSION  
 USE RETARDING  
 SUPPRESSORS  
 0701 0704 0705  
 RT ECHO SUPPRESSORS  
 RT ABSORBERS (MATERIALS)  
 #ADDITIVES  
 #ATTENUATORS  
 Baffles  
 CIRCUIT PROTECTION  
 DAMPING  
 INHIBITORS  
 INSULATION

# NASA THESAURUS (ALPHABETICAL LISTING)

## SURFACE TEMPERATURE

ISOLATORS  
MUFFLERS  
NEUTRALIZERS  
NOISE REDUCTION  
RETARDANTS  
\*SHIELDING  
SILENCERS  
SQUELCH CIRCUITS  
SURFACE CHEMISTRY  
USE SURFACE REACTIONS  
SURFACE COATINGS  
USE COATING  
SURFACE COOLING  
1803 3303  
BT \*COOLING  
RT CONVECTIVE HEAT TRANSFER  
EVAPORATIVE COOLING  
FILM COOLING  
RADIANT COOLING  
RADIATIVE HEAT TRANSFER  
\*SURFACE PROPERTIES  
SWEAT COOLING  
SURFACE CRACKS  
1504 1704 3201 3203 3204  
UF CRAZING  
BT CRACKS  
\*SURFACE PROPERTIES  
RT CRACK INITIATION  
CRACK PROPAGATION  
MICROCRACKS  
SOLID SURFACES  
SURFACE FINISHING  
SURFACE DEFECTS  
1702 1704 1805 3204  
BT \*DEFECTS  
\*SURFACE PROPERTIES  
RT CRACK INITIATION  
CRYSTAL DEFECTS  
CRYSTAL DISLOCATIONS  
FATIGUE (MATERIALS)  
\*MECHANICAL PROPERTIES  
POINT DEFECTS  
SURFACE DIFFUSION  
0602 0603 1203 2311  
BT \*DIFFUSION  
RT MOLECULAR DIFFUSION  
SURFACE ENERGY  
\*SURFACE PROPERTIES  
THERMAL DIFFUSION  
SURFACE DISTORTION  
0602 0710 2301 2310 2402  
BT DISTORTION  
RT LAMBERT SURFACE  
SURFACE GEOMETRY  
\*SURFACE PROPERTIES  
WARDAGE  
SURFACE ENERGY  
0603 2306 2308 2311  
BT \*SURFACE PROPERTIES  
\*THERMODYNAMIC PROPERTIES  
RT ACTIVATION ENERGY  
ELECTRON ENERGY  
ENERGY  
INTERFACIAL ENERGY  
INTERFACIAL TENSION  
PROTON ENERGY  
SURFACE DIFFUSION  
THERMOPHYSICAL PROPERTIES  
SURFACE EROSION  
USE EROSION  
SURFACE FINISHING  
0602 1504 1704 2601  
UF SURFACE TREATMENT  
RT CLEANING  
COATING  
\*COATINGS  
CORROSION PREVENTION  
CORROSION RESISTANCE  
ELECTROPLATING  
ELECTROPOLISHING  
FINISHES  
\*MACHINING  
\*METAL FINISHING  
METAL POLISHING  
METAL SPRAYING  
METAL SURFACES  
\*POLISHING  
PROTECTIVE COATINGS  
SHOT PEENING  
SOLID SURFACES  
SPUTTERING  
SURFACE CRACKS

\*SURFACE PROPERTIES  
WEAR  
SURFACE GEOMETRY  
0101 1902 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT CONCAVITY  
CONVEXITY  
COSSEBRAT SURFACES  
FLAT SURFACES  
FLATNESS  
\*GEOMETRY  
LAMBERT SURFACE  
LOTTING  
\*PLANFORMS  
SHAPES  
SURFACE DISTORTION  
SURFACE LAYERS  
\*SURFACE PROPERTIES  
SURFACE REACTIONS  
SURFACE ROUGHNESS  
SURFACE STABILITY  
SURFACE INTERACTIONS  
USE SURFACE REACTIONS  
SURFACE IONIZATION  
0602 1804 2306  
BT \*IONIZATION  
RT IONIZERS  
\*SURFACE PROPERTIES  
SURFACE REACTIONS  
SURFACE LAYERS  
0603 1202 1203 1301 1302  
RT MONOMOLECULAR FILMS  
RT ATMOSPHERIC STRATIFICATION  
BARRIER LAYERS  
BOUNDARY LAYERS  
CRYSTAL SURFACES  
LAYERS  
SURFACE GEOMETRY  
\*SURFACE PROPERTIES  
THERMOCLINES  
TRANSITION LAYERS  
SURFACE NAVIGATION  
2103  
UF MARINE NAVIGATION  
BT \*NAVIGATION  
RT CELESTIAL NAVIGATION  
DEAD RECKONING  
DECCA NAVIGATION  
DIGITAL NAVIGATION  
HYPERBOLIC NAVIGATION  
INERTIAL NAVIGATION  
LOBAC NAVIGATION SYSTEM  
LORAN  
\*NAVIGATION AIDS  
RADAR NAVIGATION  
RADIO NAVIGATION  
SHIPS  
SURFACE PRESSURE  
USE \*PRESSURE  
\*SURFACE PROPERTIES  
0104 0601 0603 3201 3408  
UF BARDEEN APPROXIMATION  
RT ADHESION  
ADSORPTIVITY  
COEFFICIENT OF FRICTION  
INTERFACIAL TENSION  
SKIN TEMPERATURE (NON-BIOLOGICAL)  
SPECTRAL REFLECTANCE  
SURFACE CRACKS  
SURFACE DEFECTS  
SURFACE ENERGY  
SURFACE ROUGHNESS  
SURFACE STABILITY  
SURFACE TEMPERATURE  
WALL TEMPERATURE  
RT ABSORPTANCE  
ALBEDO  
COARSENESS  
COATING  
\*COATINGS  
COLOR  
CONTACT POTENTIALS  
CONTACT RESISTANCE  
CORROSION  
COSSEBRAT SURFACES  
\*DIFFUSION  
EFFERVESCENCE  
EMISSIVITY  
EVANESCENCE  
FINISHES

FLAT SURFACES  
FOAMING  
\*FRICTION  
HARDNESS  
\*INTERFACES  
JUPITER RED SPOT  
LUNAR TOPOGRAPHY  
\*MECHANICAL PROPERTIES  
METAL SURFACES  
OPTICAL PROPERTIES  
PERMEABILITY  
PHYSICAL PROPERTIES  
PLANAR STRUCTURES  
PLANETARY SURFACES  
PROFILOMETERS  
PROPERTIES  
REFLECTANCE  
ROUGHNESS  
SELENOGRAPHY  
SOLID-SOLID INTERFACES  
SOLID SURFACES  
\*SORPTION  
SURFACE COOLING  
SURFACE DIFFUSION  
SURFACE DISTORTION  
SURFACE FINISHING  
SURFACE GEOMETRY  
SURFACE IONIZATION  
SURFACE LAYERS  
SURFACE REACTIONS  
SURFACES  
TEXTURES  
VISCOSITY  
VOID RATIO  
WETTABILITY  
SURFACE REACTIONS  
0602 0603 1203 1309  
UF SURFACE CHEMISTRY  
SURFACE INTERACTIONS  
RT \*CHEMICAL REACTIONS  
EROSION  
GAS-LIQUID INTERACTIONS  
\*INTERFACES  
METAL SURFACES  
METAL-WATER REACTIONS  
SURFACE GEOMETRY  
SURFACE IONIZATION  
\*SURFACE PROPERTIES  
SURFACE STABILITY  
SURFACTANTS  
VAPORIZING  
SURFACE ROUGHNESS  
0101 0104 1202 1704 3006 3203  
BT ROUGHNESS  
RT COARSENESS  
\*FRICTION  
LUNAR TOPOGRAPHY  
\*MACHINING  
\*MECHANICAL PROPERTIES  
PROFILOMETERS  
RUNWAY CONDITIONS  
SURFACE GEOMETRY  
SURFACE ROUGHNESS EFFECTS  
TOPOGRAPHY  
SURFACE ROUGHNESS EFFECTS  
0101 0104 2102 3203  
RT EFFECTS  
FRICTION DRAG  
REFLECTANCE  
SEPARATED FLOW  
SURFACE ROUGHNESS  
SURFACE STABILITY  
1704 2602  
BT \*STABILITY  
\*SURFACE PROPERTIES  
RT COARSENESS  
DYNAMIC STABILITY  
INTERFACIAL TENSION  
MOTION STABILITY  
STATIC STABILITY  
STORAGE STABILITY  
SURFACE GEOMETRY  
SURFACE REACTIONS  
THERMAL STABILITY  
SURFACE TEMPERATURE  
1408 2001 2003 3008 3303  
RT SKIN TEMPERATURE (NON-BIOLOGICAL)  
WALL TEMPERATURE  
BT \*SURFACE PROPERTIES  
\*TEMPERATURE  
RT COARSENESS

# **SURFACE TENSION**

THERMOCLINES  
 WATER TEMPERATURE  
 SURFACE TENSION  
 USE INTERFACIAL TENSION  
 SURFACE TO AIR MISSILES  
 3101 3401  
 UP GROUND-TO-AIR MISSILES  
 NT BLUE GOOSE MISSILE  
 BOMARC A MISSILE  
 BOMARC B MISSILE  
 BOMARC MISSILES  
 CHAPARRAL MISSILE  
 HAWK MISSILE  
 NAHLER MISSILE  
 NIKE-AJAX MISSILE  
 NIKE-HERCULES MISSILE  
 NIKE MISSILES  
 NIKE-ZEUS MISSILE  
 REDEYE MISSILE  
 SEACAT MISSILE  
 SEASLUG MISSILE  
 SPRINT MISSILE  
 TALOS MISSILE  
 TARTAR MISSILE  
 TERRIER MISSILE  
 THUNDERBIRD MISSILE  
 BT #MISSILES  
 RT AIR TO AIR MISSILES  
 AIR TO SURFACE MISSILES  
 ANTIAIRCRAFT MISSILES  
 ANTIMISSILE MISSILES  
 NIKE X SYSTEMS  
 BANGJET MISSILES  
 ROCKETS  
 SENTINEL SYSTEM  
 SPACE WEAPONS  
 SURFACE TO SURFACE MISSILES  
 SURFACE TO SURFACE MISSILES  
 3101 3401  
 NT ANTITANK MISSILES  
 ATLAS D ICBM  
 ATLAS E ICBM  
 ATLAS F ICBM  
 ATLAS G ICBM  
 ATLAS ICBM  
 AUTOMET MISSILE  
 BLUE STREAK MISSILE  
 CORPORAL MISSILE  
 CRUISE MISSILES  
 FLEET BALLISTIC MISSILES  
 INTERCONTINENTAL BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC MISSILES  
 JUPITER MISSILE  
 LACROSSE MISSILE  
 LANCE MISSILE  
 NACE MISSILES  
 MINUTEMAN ICBM  
 NAVAHO MISSILE  
 PERSHING MISSILE  
 POLARIS A1 MISSILE  
 POLARIS A2 MISSILE  
 POLARIS A2A MISSILE  
 POLARIS A3 MISSILE  
 POLARIS MISSILES  
 POSEIDON MISSILES  
 REGULUS MISSILE  
 SERGEANT MISSILES  
 SHILLELAGH MISSILES  
 SHORT RANGE BALLISTIC MISSILES  
 SLAM SUPERSONIC LOW ALTITUDE MISSILE  
 SUBROC MISSILE  
 TITAN ICBM  
 TITAN 1 ICBM  
 TITAN 2 ICBM  
 V-1 MISSILE  
 BT #MISSILES  
 RT AIR TO SURFACE MISSILES  
 BALLISTIC MISSILES  
 BANGJET MISSILES  
 ROCKETS  
 SURFACE TO AIR MISSILES  
 SURFACE TO SURFACE ROCKETS  
 3106  
 NT HONEST JOHN ROCKET VEHICLE  
 LITTLE JOHN ROCKET VEHICLE  
 BT #ROCKET VEHICLES  
 RT ROCKETS  
 SURFACE TREATMENT  
 USE SURFACE FINISHING

#SURFACE VEHICLES  
 3004 3007 3009 3110  
 NT AIRCRAFT CARRIERS  
 BOATS  
 CAPTURED AIR BUBBLE VEHICLES  
 CARGO SHIPS  
 CRAWLER TRACTORS  
 DOLLIES  
 LIFEBOATS  
 LUNAR MOBILE LABORATORIES  
 LUNAR ROVING VEHICLES  
 LUNAR SURFACE VEHICLES  
 MANNED LUNAR SURFACE VEHICLES  
 NUCLEAR POWERED SHIPS  
 ROCKET PROPELLED SLEDS  
 SATELLITE COMMUNICATIONS SHIPS  
 SAVANNAH NUCLEAR SHIP  
 SLEDS  
 TANK TRUCKS  
 TANKER SHIPS  
 TRACTORS  
 TRUCKS  
 WALKING MACHINES  
 RT AMPHIBIOUS VEHICLES  
 BICYCLE  
 GROUND EFFECT MACHINES  
 RAIL TRANSPORTATION  
 RAILS  
 SHIPS  
 UNDERWATER VEHICLES  
 URBAN TRANSPORTATION VEHICLES  
 VEHICULAR TRACKS  
 #WATER VEHICLES  
 #SURFACE WAVES  
 1202 1203 2301 2312 3203  
 (EXCLUDES SURFACE RADIO WAVES)  
 NT BAROCLINIC WAVES  
 CAPILLARY WAVES  
 GRAVITY WAVES  
 RIPPLES  
 SOMMERFELD WAVES  
 RT BOW WAVES  
 #ELASTIC WAVES  
 LEE WAVES  
 LIQUID SURFACES  
 LOVE WAVES  
 MICROSONICS  
 P WAVES  
 S WAVES  
 SEA ROUGHNESS  
 SEISMIC WAVES  
 SPLASHING  
 TROPOSPHERIC WAVES  
 TSUNAMI WAVES  
 WATER WAVES  
 WAVES  
 SURFACES  
 0101 0104 1202 1704 1902 2311 2601  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP CURVED SURFACES  
 LIFTING SURFACES  
 RT AREA  
 COLD SURFACES  
 #CONTROL SURFACES  
 COSSERAT SURFACES  
 CRYSTAL SURFACES  
 EARTH SURFACE  
 FERMI SURFACES  
 FLAT SURFACES  
 HOT SURFACES  
 #INTERFACES  
 LIQUID SURFACES  
 MENISCI  
 METAL SURFACES  
 PLANETARY SURFACES  
 SOLID SURFACES  
 #SURFACE PROPERTIES  
 TAIL SURFACES  
 TWO DIMENSIONAL BODIES  
 WEAR  
 SURFACTANTS  
 0602 0603 1704  
 NT VERSENE  
 RT ADMIXTURES  
 AGENTS  
 DETERGENTS  
 MONOMOLECULAR FILMS  
 PLASTICIZERS  
 RETARDANTS

# **NASA THESAURUS (ALPHABETICAL LISTING)**

SOAPS  
 SURFACE REACTIONS  
 SURGEONS  
 0401 0405  
 NT FLIGHT SURGEONS  
 BT MEDICAL PERSONNEL  
 #PERSONNEL  
 SURGERY  
 0401 0405  
 NT LABYRINTHECTOMY  
 RT CLINICAL MEDICINE  
 OPERATIONS  
 SKIN GRAFTS  
 TRANSPLANTATION  
 SURGES  
 0101 1202 1203 1504  
 UP TRANSIENTS (SURGES)  
 RT CIRCUIT PROTECTION  
 #FLUID FLOW  
 OVERVOLTAGE  
 #VARIATIONS  
 WATER HAMMER  
 WAVES  
 SURGICAL INSTRUMENTS  
 0405 0501  
 BT #MEDICAL EQUIPMENT  
 RT INSTRUMENTS  
 NEEDLES  
 SURVEILLANCE  
 0502 0506 0705 0709 1109 3401  
 RT COMMAND AND CONTROL  
 CONICAL SCANNING  
 #DETECTION  
 EARTH RESOURCES  
 FOREST FIRE DETECTION  
 ICE MAPPING  
 ICE REPORTING  
 INSPECTION  
 INTELLIGENCE  
 PANORAMIC SCANNING  
 RADAR SCANNING  
 RECONNAISSANCE  
 #SCANNING  
 TARGET ACQUISITION  
 TARGET RECOGNITION  
 #TARGETS  
 SURVEILLANCE RADAR  
 0705 0709 1109 3401  
 BT #RADAR  
 RT AIR TRAFFIC CONTROL  
 AIRPORT SURFACE DETECTION EQUIPMENT  
 COHERENT RADAR  
 CONTINUOUS WAVE RADAR  
 DIGITAL RADAR SYSTEMS  
 DOPPLER RADAR  
 METEOROLOGICAL RADAR  
 PULSE RADAR  
 RADAR APPROACH CONTROL  
 RADAR TRACKING  
 RADARSCOPES  
 SATELLITE-BORNE RADAR  
 SEARCH RADAR  
 TRACKING RADAR  
 SURVEYING  
 USE SURVEYS  
 SURVEYOR 1 LUNAR PROBE  
 3004 3108  
 BT LUNAR PROBES  
 #LUNAR SPACECRAFT  
 #SOFT LANDING SPACECRAFT  
 SPACE PROBES  
 SURVEYOR LUNAR PROBES  
 #UNMANNED SPACECRAFT  
 RT ATLAS CENTAUR LAUNCH VEHICLE  
 SURVEYOR 2 LUNAR PROBE  
 3004 3108  
 BT LUNAR PROBES  
 #LUNAR SPACECRAFT  
 #SOFT LANDING SPACECRAFT  
 SPACE PROBES  
 SURVEYOR LUNAR PROBES  
 #UNMANNED SPACECRAFT  
 RT ATLAS CENTAUR LAUNCH VEHICLE  
 SURVEYOR 3 LUNAR PROBE  
 3004 3108  
 BT LUNAR PROBES  
 #LUNAR SPACECRAFT  
 #SOFT LANDING SPACECRAFT  
 SPACE PROBES  
 SURVEYOR LUNAR PROBES  
 #UNMANNED SPACECRAFT  
 RT ATLAS CENTAUR LAUNCH VEHICLE

# NASA THESAURUS (ALPHABETICAL LISTING)

**SURVEYOR 4 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
#SOFT LANDING SPACECRAFT  
SPACE PROBES  
SURVEYOR LUNAR PROBES  
#UNMANNED SPACECRAFT  
RT ATLAS CENTAUR LAUNCH VEHICLE

**SURVEYOR 5 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
#SOFT LANDING SPACECRAFT  
SPACE PROBES  
SURVEYOR LUNAR PROBES  
#UNMANNED SPACECRAFT  
RT ATLAS CENTAUR LAUNCH VEHICLE

**SURVEYOR 6 LUNAR PROBE**  
3004 3108  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
#SOFT LANDING SPACECRAFT  
SPACE PROBES  
SURVEYOR LUNAR PROBES  
#UNMANNED SPACECRAFT  
RT ATLAS CENTAUR LAUNCH VEHICLE

**SURVEYOR 7 LUNAR PROBE**  
3004 3108  
BT SURVEYOR LUNAR PROBES  
RT ATLAS CENTAUR LAUNCH VEHICLE

**SURVEYOR LUNAR PROBES**  
3004 3108  
NT SURVEYOR 1 LUNAR PROBE  
SURVEYOR 2 LUNAR PROBE  
SURVEYOR 3 LUNAR PROBE  
SURVEYOR 4 LUNAR PROBE  
SURVEYOR 5 LUNAR PROBE  
SURVEYOR 6 LUNAR PROBE  
SURVEYOR 7 LUNAR PROBE  
BT LUNAR PROBES  
#LUNAR SPACECRAFT  
#SOFT LANDING SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT

**SURVEYOR PROJECT**  
3004 3110 3409  
BT LUNAR PROGRAMS  
NASA PROGRAMS  
#PROGRAMS  
PROJECTS  
SPACE PROGRAMS  
RT ATLAS CENTAUR LAUNCH VEHICLE  
CENTAUR PROJECT  
LUNAR LANDING  
LUNAR PROBES  
#LUNAR SPACECRAFT  
#SOFT LANDING SPACECRAFT

**SURVEYS**  
1905 3406  
UF SURVEYING  
NT GEODETIC SURVEYS  
WAGE SURVEYS  
RT ACCURACY  
CONSTRUCTION  
CROSS SECTIONS  
DATA ACQUISITION  
DATA MANAGEMENT  
DATUM (ELEVATION)  
#EXPLORATION  
#GEOMETRY  
LAYOUTS  
LORAN  
MAPPING  
#MAPS  
PHOTOGRAMMETRY  
POSITION (LOCATION)  
RECONNAISSANCE  
SOIL MAPPING  
STATISTICS

**SURVIVAL**  
0404 0507 0508 3104  
RT CIVIL DEFENSE  
CLOSED ECOLOGICAL SYSTEMS  
DESERT ADAPTATION  
KITS  
LIFE SUPPORT SYSTEMS  
LUNAR SHELTERS  
SHELTERS

**SURVIVAL EQUIPMENT**  
0404 0507 0508 3104

RT EMERGENCY LIFE SUSTAINING SYSTEMS  
EQUIPMENT  
LIFEBOATS  
#ONBOARD EQUIPMENT  
OXYGEN SUPPLY EQUIPMENT  
RAFTS  
SUSCEPTIBILITY (MAGNETISM)  
USE MAGNETIC PERMEABILITY  
SUSPENDING (HANGING)  
1403 1504 2308 3203  
NT MAGNETIC SUSPENSION  
RT GYROSCOPE FLUIDS  
MOUNTING  
SUSPENSION SYSTEMS (VEHICLES)  
SUSPENSIONS  
SUSPENDING (MIXING)  
0603 1202  
BT MIXING  
RT AERATION  
AGITATION  
COLLOIDING  
DISPERSING  
DISPERSIONS  
ENTRAINMENT  
HOMOGENIZING  
SHAKING  
STIRRING  
SUSPENSIONS  
SUSPENSION SYSTEMS (VEHICLES)  
0202 0303 1403 1504 2308  
RT #BEARINGS  
#LOTATION  
LEVITATION  
SHOCK ABSORBERS  
SPRINGS (ELASTIC)  
STEERING  
SUSPENDING (HANGING)  
SUSPENSIONS  
SYSTEMS  
UNDERCARRIAGES  
VEHICLE WHEELS  
VEHICULAR TRACKS  
VIBRATION ISOLATORS  
SUSPENSIONS  
0404 0603 1202 1504 2603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BROWNIAN MOVEMENTS  
DISPERSIONS  
SUSPENDING (HANGING)  
SUSPENDING (MIXING)  
SUSPENSION SYSTEMS (VEHICLES)  
SUSTAINER ROCKET ENGINES  
0202 1504 2801 3301  
NT NG-18 ENGINE  
BT #ENGINES  
ROCKET ENGINES  
RT BOOSTER ROCKET ENGINES  
DUCTED ROCKET ENGINES  
ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
ELECTROTHERMAL ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
INTERNAL COMBUSTION ENGINES  
ION ENGINES  
#LAUNCH VEHICLES  
LIQUID AIR CYCLE ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
NUCLEAR ENGINE FOR ROCKET VEHICLES  
NUCLEAR ROCKET ENGINES  
RESTARTABLE ROCKET ENGINES  
SATELLOIDS  
SOLID PROPELLANT ROCKET ENGINES  
STAGE SEPARATION  
SUSTAINING  
TURBOROCKET ENGINES  
TX-354 ENGINE  
SUSTAINING  
1504 2308 2801  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT LIFE SUPPORT SYSTEMS  
SUPPORTS  
SUSTAINER ROCKET ENGINES  
SWAGING  
1504 1507 1702  
RT #METAL WORKING  
SWALLOWING  
0404 0408 0505  
RT DEGLUTITION

## SWEEP FORWARD WINGS

DRINKING  
EATING  
INGESTION (BIOLOGY)  
SWAN BANDS  
0605 1411  
BT #SPECTRA  
SPECTRAL BANDS  
RT #CARBON COMPOUNDS  
CHEMICAL BONDS  
EMISSION SPECTRA  
MOLECULAR SPECTRA  
SWARNING  
3407  
RT BEES  
MOTION  
SWASH  
USE SPLASHING  
SWEAT  
0408  
BT #BODY FLUIDS  
#SECRECTIONS  
RT PERSPIRATION  
SWEAT COOLING  
1504 1803 3303  
UF TRANSPIRATION COOLING  
BT #COOLING  
EVAPORATIVE COOLING  
FILM COOLING  
LIQUID COOLING  
SURFACE COOLING  
SWEATING  
USE PERSPIRATION  
SWEDEN  
1305  
RT EUROPE  
NATIONS  
SWEEP ANGLE  
0101 0102 0103 1902  
RT LEADING EDGE SWEEP  
SWEEPBACK  
BT ANGLES (GEOMETRY)  
RT AERODYNAMIC STALLING  
ANGLE OF ATTACK  
BOUNDARY LAYER SEPARATION  
MACH NUMBER  
SWEEP CIRCUITS  
0902  
BT #CIRCUITS  
SWEEP EFFECT  
0101 0104 1202 1203  
RT FORCE DISTRIBUTION  
LIFT  
LOADING  
WING LOADING  
SWEEP FREQUENCY  
0705 0710 2402  
UF ELECTRON SWEEPING  
BT #FREQUENCIES  
RT CARRIER FREQUENCIES  
FREQUENCY ANALYZERS  
FREQUENCY SCANNING  
FREQUENCY SYNCHRONIZATION  
OSCILLOSCOPES  
TELEVISION TRANSMISSION  
SWEEPBACK  
0101 1202 3408  
UF SWEEPBACK ANGLES  
RT LEADING EDGE SWEEP  
BT SWEEP ANGLE  
RT ANGLES (GEOMETRY)  
SUPERSONIC AIRFOILS  
SWEEPBACK ANGLES  
USE SWEEPBACK  
SWELLING  
0602 1704 3203 3303  
RT DISTORTION  
#EXPANSION  
#GROWTH  
INCREASING  
INFLATING  
SPREADING  
SWEEP FORWARD WINGS  
0104  
RT TRAPEZOIDAL WINGS  
BT #AIRFOILS  
#PLANFORMS  
SWEEP WINGS  
WING PLANFORMS  
WINGS  
RT SWEEPBACK WINGS  
VARIABLE SWEEP WINGS



# SWEEP WINGS

SWEEP WINGS  
0102 0104 0202  
UP DIAMOND WINGS  
TAPERED WINGS  
BT ARROW WINGS  
DELTA WINGS  
SWEEP FORWARD WINGS  
SWEEPBACK WINGS  
TRAPEZOIDAL WINGS  
BT #AIRFOILS  
WINGS  
BT FIXED WINGS  
UNSWEPT WINGS  
WING PLANFORMS  
SWEEPBACK TAIL SURFACES  
0102 0104 0202  
BT #PLANFORMS  
TAIL SURFACES  
RT #CONTROL SURFACES  
HYPERSONIC AIRCRAFT  
RUDDERS  
STABILIZERS (FLUID DYNAMICS)  
SUPERSONIC AIRFOILS  
SWEEPBACK WINGS  
T TAIL SURFACES  
TRAPEZOIDAL TAIL SURFACES  
SWEEPBACK WINGS  
0102 0104 0202  
NT ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
BT #AIRFOILS  
#PLANFORMS  
SWEEP WINGS  
WING PLANFORMS  
WINGS  
RT HYPERSONIC AIRCRAFT  
#SUPERSONIC AIRCRAFT  
SUPERSONIC AIRFOILS  
SWEEP FORWARD WINGS  
SWEEPBACK TAIL SURFACES  
VARIABLE SWEEP WINGS  
SWIFT IP-114 AIRCRAFT  
USE P-114 AIRCRAFT  
SWIMMING  
0502  
BT EXERCISE (PHYSIOLOGY)  
SWIMMING POOL REACTORS  
2202 2204  
BT #NUCLEAR REACTORS  
WATER COOLED REACTORS  
RT REACTORS  
SWINE  
0402 0404  
(EXCLUDES GUINEA PIGS)  
UP PIGS (SWINE)  
BT #ANIMALS  
MAMMALS  
VERTEBRATES  
SWING TAIL ASSEMBLIES  
0201 0207  
BT TAIL ASSEMBLIES  
RT AIRCRAFT  
SWINGBY TECHNIQUE  
3006 3007  
RT PLYBY MISSIONS  
GRAVITATIONAL EFFECTS  
INTERPLANETARY TRANSFER ORBITS  
ORBITAL MECHANICS  
PLANETARY ORBITS  
ROUND TRIP TRAJECTORIES  
SWIRLING  
1202 1203  
BT AGITATION  
CENTRIFUGING  
DISPERSING  
FOAMING  
MIXING  
SEPARATION  
SHAKING  
STIRRING  
SWIRLING WAKES  
USE TURBULENT WAKES  
#SWITCHES  
0902 0904 1001 1504  
NT CAPACITANCE SWITCHES  
CRYOTRONS  
ELECTRIC RELAYS  
ELECTRIC SWITCHES  
FLUID SWITCHING ELEMENTS  
PRESSURE SWITCHES  
SWITCHING CIRCUITS

THERMOSTATS  
TRIGATRONS  
BT CIRCUIT BREAKERS  
ECHO SUPPRESSORS  
ELECTRIC CONNECTORS  
ELECTRIC CONTACTS  
SELECTORS  
SWITCHING  
SWITCHING  
1001 3407  
UP SWITCHING FUNCTIONS  
NT BEAM SWITCHING  
MAGNETIC SWITCHING  
MICROWAVE SWITCHING  
RT SEQUENCING  
#SWITCHES  
SWITCHING CIRCUITS  
SWITCHING CIRCUITS  
0801 0902 1001 1002  
UP ELECTRONIC SWITCHES  
SWITCHING ELEMENTS  
NT FLUID SWITCHING ELEMENTS  
BT #CIRCUITS  
#SWITCHES  
BT CAPACITANCE SWITCHES  
CIRCUIT BREAKERS  
CURRENT REGULATORS  
DUPLEX OPERATION  
DUPLEXERS  
ELECTRIC RELAYS  
ELECTRIC SWITCHES  
GATES (CIRCUITS)  
LOGIC CIRCUITS  
MATRICES (CIRCUITS)  
MICROWAVE SWITCHING  
MULTIVIBRATORS  
SELECTORS  
SQUELCH CIRCUITS  
SWITCHING  
VOLTAGE REGULATORS  
SWITCHING ELEMENTS  
USE SWITCHING CIRCUITS  
SWITCHING FUNCTIONS  
USE BOOLEAN FUNCTIONS  
SWITCHING  
SWITCHING THEORY  
0702 0801 1001  
RT BOOLEAN ALGEBRA  
BRANCHING (MATHEMATICS)  
#COMMUNICATION THEORY  
COMMUTATION  
LOGIC DESIGN  
NETWORK SYNTHESIS  
SEQUENCING  
THEORIES  
TOPOLOGY  
SWITZERLAND  
1305  
RT EUROPE  
NATIONS  
SWIVELS  
1502 1504  
RT #BEARINGS  
GIMBALS  
HINGES  
HOOKS  
#JOINTS (JUNCTIONS)  
PIVOTS  
SYMBITE  
1305 1806  
BT IGNEOUS ROCKS  
ROCKS  
RT TRACHYTE  
SYLLABLES  
0703  
BT #COMMUNICATION THEORY  
#LANGUAGES  
#LINGUISTICS  
SENTENCES  
SIGNAL RECEPTION  
#SPEECH  
SYNTAX  
TALKING  
WORDS (LANGUAGE)  
BT MESSAGES  
SEMANTICS  
SYMBIOSIS  
0404  
RT ECOLOGY  
LICHENS  
SYMBOLIC PROGRAMMING  
0802 0803

# NASA THESAURUS (ALPHABETICAL LISTING)

RT CODING  
CONTEXT FREE LANGUAGES  
LANGUAGE PROGRAMMING  
MNEMONICS  
SYMBOLS  
0703 0802 0803 1201 1902  
UP ABBREVIATIONS  
CHARACTERS  
LETTERS (SYMBOLS)  
SIGNS (SYMBOLS)  
BT SIGNAL RECEPTION  
RT ALPHABETS  
#ALPHANUMERIC CHARACTERS  
CHARACTER RECOGNITION  
CODES  
CODING  
COLOR  
#DATA PROCESSING  
DIGITS  
#LANGUAGES  
LEGIBILITY  
MATHEMATICS  
MESSAGES  
MNEMONICS  
NOMENCLATURES  
#PERCEPTION  
READING  
SEMANTICS  
UNITS OF MEASUREMENT  
VISIBILITY  
#SYMMETRICAL BODIES  
0102 0104 1202 3203  
NT AXISYMMETRIC BODIES  
BODIES OF REVOLUTION  
CELESTIAL SPHERE  
CONICAL BODIES  
CYLINDRICAL BODIES  
ELLIPSOIDS  
FAIRINGS  
LENTICULAR BODIES  
PARABOLIC BODIES  
POINCARÉ SPHERES  
ROTATING CYLINDERS  
ROTATING SPHERES  
SLENDER CONES  
SPHERES  
STREAMLINED BODIES  
TORUSES  
RT AXES OF ROTATION  
BLUNT BODIES  
BODIES  
#CONES  
FINNED BODIES  
FLARED BODIES  
GEOIDS  
OGIVES  
SLENDER BODIES  
SPINNING UNGUIDED ROCKET TRAJECTORY  
SYMMETRY  
1902 2311  
UP AXISYMMETRY  
RT ANTISYMMETRY  
ASYMMETRY  
CONGRUENCES  
CONTINUITY (MATHEMATICS)  
ECCENTRICITY  
#GEOMETRY  
ISOTROPISM  
SHAPES  
SYMPATHETIC NERVOUS SYSTEM  
0404 0408  
BT AUTONOMIC NERVOUS SYSTEM  
#NERVOUS SYSTEM  
SYMPATHOMINETICS  
USE ADRENERGICS  
SYMPTOMOLOGY  
0401 0405 0408  
BT #MEDICAL SCIENCE  
RT #DISEASES  
SIGNS AND SYMPTOMS  
SYMPTOMS  
USE SIGNS AND SYMPTOMS  
SYNAPSES  
0404 0408  
BT #NERVOUS SYSTEM  
RT NEUROMUSCULAR TRANSMISSION  
SYNCHRONISERS  
SYNCHROTRONS  
2202 2308 2308 2403  
BT CYCLIC ACCELERATORS  
CYCLOTRONS  
#PARTICLE ACCELERATORS

# NASA THESAURUS (ALPHABETICAL LISTING)

**RT BEVATRON**  
**SYNCHROTRONS**  
**SYNCHRONISM**  
0705 0710 1002 1407 3406  
**UF BEAT**  
**SYNCHRONIZATION**  
**RT BIT SYNCHRONIZATION**  
**RT FREQUENCY SYNCHRONIZATION**  
**RT COINCIDENCE CIRCUITS**  
**PHASE DETECTORS**  
**STROBOSCOPES**  
**SYNCHRONIZERS**  
**#TIME**  
**TIME MEASUREMENT**  
**SYNCHRONIZATION**  
**USE SYNCHRONISM**  
**SYNCHRONIZED OSCILLATORS**  
0701 0710 0905 2402  
**BT #OSCILLATORS**  
**RT FREQUENCY SYNCHRONIZATION**  
**PHASE LOCKED SYSTEMS**  
**SYNCHROSCOPES**  
**SYNCHRONIZERS**  
0701 0905 2309 2402  
**UF PROPELLER SYNCHRONIZERS**  
**RT PULSE RADAR**  
**SERVOMOTORS**  
**SYNCHRONISM**  
**SYNCHRONOUS COMMUNICATION SATELLITES**  
**USE SYNCOM SATELLITES**  
**SYNCHRONOUS COMMUNICATIONS SATELLITE PROJ**  
0706 3107 3409  
**BT NASA PROGRAMS**  
**#PROGRAMS**  
**PROJECTS**  
**RT COMMUNICATION SATELLITES**  
**#SATELLITES**  
**SYNCHRONOUS SATELLITES**  
**TWENTY-FOUR HOUR ORBITS**  
**SYNCHRONOUS DETECTORS**  
**USE CORRELATORS**  
**SYNCHRONOUS METEOROLOGICAL SATELLITE**  
2003 2004 3107  
**UF SMS**  
**BT ARTIFICIAL SATELLITES**  
**EARTH SATELLITES**  
**METEOROLOGICAL SATELLITES**  
**#SATELLITES**  
**SYNCHRONOUS SATELLITES**  
**RT COMMUNICATION SATELLITES**  
**SYNCHRONOUS MOTORS**  
0904 1504  
**BT ELECTRIC MOTORS**  
**#MOTORS**  
**SYNCHRONOUS SATELLITES**  
0706 0709 1904 3006 3107  
**NT AEROS SATELLITE**  
**EARLY BIRD SATELLITES**  
**SYNCHRONOUS METEOROLOGICAL SATELLITE**  
**SYNCOM 1 SATELLITE**  
**SYNCOM 2 SATELLITE**  
**SYNCOM 3 SATELLITE**  
**SYNCOM SATELLITES**  
**BT ARTIFICIAL SATELLITES**  
**#SATELLITES**  
**RT ACTIVE SATELLITES**  
**COMMUNICATION SATELLITES**  
**EARTH SATELLITES**  
**#MILITARY SPACECRAFT**  
**NAVIGATION SATELLITES**  
**PASSIVE SATELLITES**  
**STATIONARY ORBITS**  
**SYNCHRONOUS COMMUNICATIONS SATELLITE PROJ**  
**TWENTY-FOUR HOUR ORBITS**  
**SYNCHROPHASOTRONS**  
2401 2403  
**BT #PARTICLE ACCELERATORS**  
**RT ACCELERATORS**  
**SYNCHROTRONS**  
**SYNCHROSCOPES**  
0905  
**BT #CIRCUITS**  
**PHASE DETECTORS**  
**RT CORRELATORS**  
**#MEASURING INSTRUMENTS**  
**OSCILLOSCOPES**  
**SYNCHRONIZED OSCILLATORS**  
**SYNCHROTRON NOISE**  
**USE ELECTROMAGNETIC NOISE**  
**SYNCHROTRON RADIATION**

**SYNCHROTRON RADIATION**  
2304 2307 2402 2403 2502  
**UF SYNCHROTRON NOISE**  
**BT #ELECTROMAGNETIC RADIATION**  
**POLARIZED ELECTROMAGNETIC RADIATION**  
**#POLARIZED RADIATION**  
**RT BREHMSSTRAHLUNG**  
**#EXTRATERRESTRIAL RADIATION**  
**RADIATION PROTECTION**  
**SYNCHROTRONS**  
**X RAYS**  
**SYNCHROTRONS**  
1504 2304 2307 2403  
**RT STORAGE RINGS (PARTICLE ACCELERATORS)**  
**BT CYCLIC ACCELERATORS**  
**#PARTICLE ACCELERATORS**  
**BETATRONS**  
**CYCLOTRONS**  
**ELECTRON ACCELERATORS**  
**ION ACCELERATORS**  
**MICROTRONS**  
**SYNCHROCYCLOTRONS**  
**SYNCHROPHASOTRONS**  
**SYNCHROTRON RADIATION**  
**SYNCDERS**  
0404 0408  
**RT BIONICS**  
**NEURONS**  
**SYNAPSES**  
**SYNCOM APOGEE ENGINES**  
0706 2806 2808 3006  
**BT #ENGINES**  
**ROCKET ENGINES**  
**SOLID PROPELLANT ROCKET ENGINES**  
**TORPEDO ENGINES**  
**VERNIER ENGINES**  
**RT SYNCOM SATELLITES**  
**SYNCOM 1 SATELLITE**  
0706 3107  
**BT ACTIVE SATELLITES**  
**ARTIFICIAL SATELLITES**  
**COMMUNICATION SATELLITES**  
**EARTH SATELLITES**  
**#SATELLITES**  
**SYNCHRONOUS SATELLITES**  
**SYNCOM SATELLITES**  
**RT DELTA LAUNCH VEHICLE**  
**SYNCOM 2 SATELLITE**  
0706 3107  
**BT ACTIVE SATELLITES**  
**ARTIFICIAL SATELLITES**  
**COMMUNICATION SATELLITES**  
**EARTH SATELLITES**  
**#SATELLITES**  
**SYNCHRONOUS SATELLITES**  
**SYNCOM SATELLITES**  
**RT DELTA LAUNCH VEHICLE**  
**SYNCOM 3 SATELLITE**  
0706 3107  
**BT ACTIVE SATELLITES**  
**ARTIFICIAL SATELLITES**  
**COMMUNICATION SATELLITES**  
**EARTH SATELLITES**  
**#SATELLITES**  
**SYNCHRONOUS SATELLITES**  
**SYNCOM SATELLITES**  
**RT DELTA LAUNCH VEHICLE**  
**SYNCOM SATELLITES**  
0706 3107  
**UF SYNCHRONOUS COMMUNICATION SATELLITES**  
**RT EARLY BIRD SATELLITES**  
**SYNCOM 1 SATELLITE**  
**SYNCOM 2 SATELLITE**  
**SYNCOM 3 SATELLITE**  
**BT ACTIVE SATELLITES**  
**ARTIFICIAL SATELLITES**  
**COMMUNICATION SATELLITES**  
**EARTH SATELLITES**  
**#SATELLITES**  
**SYNCHRONOUS SATELLITES**  
**SYNCOM APOGEE ENGINES**  
**THOR DELTA LAUNCH VEHICLE**  
**#SYNCOPE**  
0401 0405 0408  
**UF PAINTING**  
**RT BLACKOUT (PHYSIOLOGY)**  
**BLACKOUT PREVENTION**  
**RT #UNCONSCIOUSNESS**  
**SYNDROMES**  
**USE SIGNS AND SYMPTOMS**

# SYNTHETIC RUBBERS

**SYNOPTIC MEASUREMENT**  
1406 1408 2001 2003 3405  
**RT MEASUREMENT**  
**NEPHANALYSIS**  
**SYNOPTIC METEOROLOGY**  
**SYNOPTIC METEOROBLOGY**  
2001 2003 3405  
**BT #METEOROLOGY**  
**RT AIR MASSES**  
**ANTICYCLONES**  
**CYCLONES**  
**FRONTS (METEOROLOGY)**  
**METEOROLOGICAL CHARTS**  
**NEPHANALYSIS**  
**SYNOPTIC MEASUREMENT**  
**WEATHER FORECASTING**  
**SYNTAX**  
0703 3405  
**NT SENTENCES**  
**SYLLABLES**  
**WORDS (LANGUAGE)**  
**BT #LINGUISTICS**  
**RT FORMAT**  
**GRAMMARS**  
**INTERPRETATION**  
**#LANGUAGES**  
**ORTHOGRAPHY**  
**SEMANTICS**  
**#SPEECH**  
**SYNTHESIS**  
0601 1902 3406 3407  
**(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)**  
**RT BIOSYNTHESIS**  
**#CHEMICAL REACTIONS**  
**DECISION THEORY**  
**NETWORK SYNTHESIS**  
**NUCLEAR FUSION**  
**OPERATIONS RESEARCH**  
**PLASMA JET SYNTHESIS**  
**SYSTEMS ENGINEERING**  
**SYNTHESIZERS**  
**USE CHEMICAL REACTORS**  
**SYNTHETIC ARRAYS**  
0705 0710 0901  
**BT #ARRAYS**  
**RT ANTENNA RADIATION PATTERNS**  
**APERTURES**  
**#DISTRIBUTION (PROPERTY)**  
**PATTERNS**  
**SYNTHETIC FIBERS**  
1808 1809 1810 1811 3404  
**NT DACRON (TRADEMARK)**  
**FORTISAN (TRADEMARK)**  
**GLASS FIBERS**  
**NYLON (TRADEMARK)**  
**RAYON**  
**VYCOR**  
**BT #FIBERS**  
**RT ADDITION RESINS**  
**POLYBENZIMIDAZOLE**  
**POLYESTERS**  
**REINFORCING FIBERS**  
**SYNTHETIC RESINS**  
1808 1809 1810 3404  
**NT ACRYLIC RESINS**  
**ADDITION RESINS**  
**EPOXY RESINS**  
**FURAN RESINS**  
**MICARTA**  
**NYLON (TRADEMARK)**  
**PHENOLIC RESINS**  
**POLYAMIDE RESINS**  
**POLYESTER RESINS**  
**POLYETHER RESINS**  
**POLYMETHYL METHACRYLATE**  
**THERMOPLASTIC RESINS**  
**THERMOSETTING RESINS**  
**VINYL COPOLYMERS**  
**BT #PLASTICS**  
**#RESINS**  
**RT POLYETHYLENES**  
**POLYMERS**  
**POLYPROPYLENE**  
**POLYSTYRENE**  
**POLYTETRAFLUOROETHYLENE**  
**POLYVINYL ALCOHOL**  
**POLYVINYL CHLORIDE**  
**TEFLON (TRADEMARK)**  
**SYNTHETIC RUBBERS**  
1808 1809 1810 3404

## SYNTONY

NT ADIPRENE (TRADEMARK)  
 BUNA (TRADEMARK)  
 CHLOROPRENE RESINS  
 ELASTOMERS  
 THIOPLASTICS  
 VITON RUBBER (TRADEMARK)  
 BT #RUBBER  
 RT POLYBUTADIENE  
 POLYISOBUTYLENE  
 SILICONE RUBBER  
 SOLITHANES  
 SYNTONY  
 3408  
 RT #RESONANCE  
 SYPHILIS  
 0404 0405  
 BT #DISEASES  
 INFECTIOUS DISEASES  
 SYRIA  
 1305  
 RT ASIA  
 NATIONS  
 SYRINGES  
 0405 0501  
 BT #MEDICAL EQUIPMENT  
 SYSTEM EFFECTIVENESS  
 3406 3408  
 BT EFFECTIVENESS  
 RT RELIABILITY  
 RELIABILITY ENGINEERING  
 SYSTEMS ANALYSIS  
 SYSTEMS ENGINEERING  
 SYSTEM FAILURES  
 0503 1002 3203  
 BT FAILURE  
 RT BREAKDOWN  
 DETERIORATION  
 DOWNTIME  
 FATIGUE (MATERIALS)  
 MALFUNCTIONS  
 SHORT CIRCUITS  
 STRUCTURAL FAILURE  
 STRUCTURAL STRAIN  
 SYSTEMS  
 WEAR  
 SYSTEM LIFE  
 USE RELIABILITY  
 SYSTEMIZATION  
 USE SYSTEMS ENGINEERING  
 SYSTEMS  
 0503 1003 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ADVANCED VIDICON CAMERA SYSTEM  
 (AVCS)  
 AEROSPACE SYSTEMS  
 #BINARY SYSTEMS (MATERIALS)  
 CENTRAL ELECTRONIC MANAGEMENT  
 SYSTEM  
 CLOSED ECOLOGICAL SYSTEMS  
 COMPLEX SYSTEMS  
 COOLING SYSTEMS  
 CYBERNETICS  
 #DISPLAY DEVICES  
 EARTH-MOON SYSTEM  
 EMERGENCY LIFE SUSTAINING SYSTEMS  
 ESCAPE SYSTEMS  
 EXHAUST SYSTEMS  
 FAIL-SAFE SYSTEMS  
 #FEEDBACK  
 FUEL SYSTEMS  
 #GUIDANCE (MOTION)  
 HYBRID NAVIGATION SYSTEMS  
 HYDRAULIC EQUIPMENT  
 IGNITION SYSTEMS  
 INFORMATION SYSTEMS  
 #INTAKE SYSTEMS  
 JETTISON SYSTEMS  
 LIFE SUPPORT SYSTEMS  
 LUBRICATION SYSTEMS  
 MAN MACHINE SYSTEMS  
 MANAGEMENT SYSTEMS  
 MINITRACK SYSTEM  
 MISSILE SYSTEMS  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 #NAVIGATION  
 NONLINEAR SYSTEMS  
 PHASE LOCKED SYSTEMS  
 PIGGYBACK SYSTEMS  
 PNEUMATIC EQUIPMENT

POLYSTATION DOPPLER TRACKING SYSTEM  
 QUALITY CONTROL  
 RAMIS (SYSTEM)  
 RAPID TRANSIT SYSTEMS  
 SAFEGUARD SYSTEM  
 SELF ORGANIZING SYSTEMS  
 SENTINEL SYSTEM  
 SNAP  
 SOLAR SYSTEM  
 SPACE DETECTION AND TRACKING SYSTEM  
 SUPPORT SYSTEMS  
 SUSPENSION SYSTEMS (VEHICLES)  
 SYSTEM FAILURES  
 SYSTEMS ENGINEERING  
 SYSTEMS MANAGEMENT  
 #TELECOMMUNICATION  
 TELEGRAPH SYSTEMS  
 TELEVISION SYSTEMS  
 TERNARY SYSTEMS  
 TRANSPER FUNCTIONS  
 VACUUM SYSTEMS  
 VARIABLE MASS SYSTEMS  
 #WARNING SYSTEMS  
 #WEAPON SYSTEMS  
 SYSTEMS ANALYSIS  
 1905 3404 3405  
 RT ANALYZING  
 COMPLEX SYSTEMS  
 COMPUTER PROGRAMMING  
 COMPUTER SYSTEMS PROGRAMS  
 MAN MACHINE SYSTEMS  
 MATHEMATICAL MODELS  
 OPERATIONS RESEARCH  
 PREFLIGHT ANALYSIS  
 PROCEDURES  
 #SIMULATION  
 SOCIOLOGY  
 #STATISTICAL ANALYSIS  
 SYSTEM EFFECTIVENESS  
 SYSTEMS COMPATIBILITY  
 SYSTEMS ENGINEERING  
 SYSTEMS STABILITY  
 TRAJECTORY ANALYSIS  
 WEIGHT ANALYSIS  
 SYSTEMS COMPATIBILITY  
 3408  
 RT RELIABILITY  
 RELIABILITY ENGINEERING  
 SYSTEMS ANALYSIS  
 SYSTEMS ENGINEERING  
 SYSTEMS DESIGN  
 USE SYSTEMS ENGINEERING  
 SYSTEMS ENGINEERING  
 0503 0506 3009  
 UP SYSTEMIZATION  
 SYSTEMS DESIGN  
 RT AEROSPACE SYSTEMS  
 AIRCRAFT DESIGN  
 AUTOMATION  
 BIONICS  
 #COMMUNICATING  
 CONTRACT MANAGEMENT  
 CONTROL  
 CRITICAL PATH METHOD  
 CYBERNETICS  
 #DATA PROCESSING  
 DECISION MAKING  
 DECISION THEORY  
 DESIGN  
 ELECTRICAL ENGINEERING  
 ENGINEERING  
 EXPERIMENTAL DESIGN  
 #FORECASTING  
 HUMAN FACTORS ENGINEERING  
 INFORMATION THEORY  
 MAN MACHINE SYSTEMS  
 #MANAGEMENT  
 MANAGEMENT PLANNING  
 MATHEMATICAL MODELS  
 MECHANIZATION  
 MISSILE DESIGN  
 OPERATIONS  
 OPERATIONS RESEARCH  
 RELIABILITY  
 RELIABILITY ENGINEERING  
 RESEARCH AND DEVELOPMENT  
 SATELLITE DESIGN  
 SPACECRAFT DESIGN  
 #STATISTICAL ANALYSIS  
 STATISTICS  
 SYNTHESIS  
 SYSTEM EFFECTIVENESS

## NASA THESAURUS (ALPHABETICAL LISTING)

SYSTEMS  
 SYSTEMS ANALYSIS  
 SYSTEMS COMPATIBILITY  
 SYSTEMS MANAGEMENT  
 SYSTEMS STABILITY  
 SYSTEMS FOR NUCLEAR AUXILIARY POWER  
 USE SNAP  
 SYSTEMS MANAGEMENT  
 3404 3406  
 BT #MANAGEMENT  
 RT INDUSTRIAL MANAGEMENT  
 INFORMATION SYSTEMS  
 MAN MACHINE SYSTEMS  
 MANAGEMENT METHODS  
 OPERATIONS RESEARCH  
 SYSTEMS  
 SYSTEMS ENGINEERING  
 SYSTEMS STABILITY  
 1905 3404 3405  
 BT #STABILITY  
 RT CONTROL STABILITY  
 DYNAMIC STABILITY  
 #EQUATIONS OF MOTION  
 EQUILIBRIUM  
 FLOW STABILITY  
 SYSTEMS ANALYSIS  
 SYSTEMS ENGINEERING  
 UNSTEADY STATE  
 SYSTOLE  
 0404 0405  
 BT #ANATOMY  
 CARDIOVASCULAR SYSTEM  
 HEART RATE  
 #RATES (PER TIME)  
 RT BLOOD FLOW  
 BLOOD PRESSURE  
 CARDIAC VENTRICLES  
 DIASTOLE  
 SYSTOLIC PRESSURE  
 SYSTOLIC PRESSURE  
 0401 0404 0405  
 BT BLOOD PRESSURE  
 #PRESSURE  
 RT SYSTOLE

**T**

**T-2 AIRCRAFT**  
0207 0502  
UP BUCKEYE AIRCRAFT  
T2J AIRCRAFT  
YT-2 AIRCRAFT  
BT #JET AIRCRAFT  
MONOPLANES  
NORTH AMERICAN AIRCRAFT  
TRAINING AIRCRAFT

**T-28 AIRCRAFT**  
0207 0502  
UP TROJAN AIRCRAFT  
BT MONOPLANES  
NORTH AMERICAN AIRCRAFT  
TRAINING AIRCRAFT

**T-33 AIRCRAFT**  
0207 0502  
UP F-80 AIRCRAFT  
SHOOTING STAR AIRCRAFT  
BT #JET AIRCRAFT  
LOCKHEED AIRCRAFT  
MONOPLANES  
TRAINING AIRCRAFT

**T-37 AIRCRAFT**  
0207 0502  
BT CESSNA AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
TRAINING AIRCRAFT  
A-37 AIRCRAFT

**T-38 AIRCRAFT**  
0207 0502  
UP TALON AIRCRAFT  
BT #JET AIRCRAFT  
MONOPLANES  
NORTHROP AIRCRAFT  
TRAINING AIRCRAFT

**T-39 AIRCRAFT**  
0207 0502  
UP SABRELLER AIRCRAFT  
T3J AIRCRAFT  
BT #JET AIRCRAFT  
MONOPLANES  
NORTH AMERICAN AIRCRAFT  
TRAINING AIRCRAFT  
UTILITY AIRCRAFT

**T-34 ENGINE**  
2805  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
RT C-133 AIRCRAFT

**T-38 ENGINE**  
2805  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES

**T-53 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
RT HELICOPTER ENGINES

**T-55 ENGINE**  
2801  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBOJET ENGINES  
RT HELICOPTER ENGINES

**T-56 ENGINE**  
2805 2801  
BT AIR BREATHING ENGINES  
#ENGINES

**GAS TURBINE ENGINES**  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
RT C-130 AIRCRAFT

**T-58 ENGINE**  
2805 2801  
BT #ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBINE ENGINES  
BT AIRCRAFT ENGINES  
HELICOPTER ENGINES  
VERTICAL TAKEOFF AIRCRAFT

**T-63 ENGINE**  
0202 2801 2805  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
RT HELICOPTER ENGINES

**T-64 ENGINE**  
1203 1504 2801 2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES

**T-74 ENGINE**  
2801 2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES

**T-76 ENGINE**  
0202 2801 2805  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
RT HELICOPTER ENGINES

**T-78 ENGINE**  
2805  
BT AIRCRAFT ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
TURBINE ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES

**T-58-GE-8B ENGINE**  
1504 2805  
BT AIR BREATHING ENGINES  
#ENGINES  
GAS TURBINE ENGINES  
INTERNAL COMBUSTION ENGINES  
TURBINE ENGINES  
RT AIRCRAFT ENGINES  
HELICOPTER ENGINES  
VERTICAL TAKEOFF AIRCRAFT

**T SHAPE**  
3203 3408  
UP TEE  
BT SHAPES  
RT BEAMS (SUPPORTS)

**T TAIL SURFACES**  
0104 0202  
BT TAIL SURFACES  
RT #CONTROL SURFACES  
STABILIZERS (FLUID DYNAMICS)  
SWEEPBACK TAIL SURFACES  
TAIL ASSEMBLIES

**T TAURI STARS**  
2903 3001  
BT #CELESTIAL BODIES  
EARLY STARS  
PROTOSTARS  
STARS

**VARIABLE STARS**  
RT TAURUS CONSTELLATION  
TABLES, (DATA)  
0506 0802 1103 1504 1902 1903  
NT CONVERSION TABLES  
INTERFERENCE FACTOR TABLE  
MATHEMATICAL TABLES  
RT ASTRONOMICAL CATALOGS  
DATA  
DATA ACQUISITION  
DATA MANAGEMENT  
#DATA PROCESSING  
DATA RECORDING  
DATA REDUCTION  
DATA RETRIEVAL  
PRINTOUTS  
#STATISTICAL ANALYSIS  
STATISTICS  
TABULATION  
TABULATION PROCESSES

**TABLETS**  
1504  
RT BRIQUETS  
CAPSULES  
MOLDS

**TABS (CONTROL SURFACES)**  
0101 0102 0104 0202  
BT #AIRFOILS  
#CONTROL SURFACES  
RT AERIAL RUDDERS  
AILERONS  
ELEVATORS (CONTROL SURFACES)  
ELEVONS  
RUDDERS  
STABILIZERS (FLUID DYNAMICS)

**TABULATING**  
USE TABULATION PROCESSES

**TABULATION**  
1902 1905  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT TABLES (DATA)  
TABULATION PROCESSES  
TABULATION PROCESSES  
0803 1902 1905  
UP TABULATING  
RT #DATA PROCESSING  
DATA RECORDING  
TABLES (DATA)  
TABULATION

**TACAN**  
2101 2103 3401  
UP TACTICAL AIR NAVIGATION  
BT #NAVIGATION  
RADIO NAVIGATION  
RT ALL-WEATHER AIR NAVIGATION  
FLIGHT PATHS  
#NAVIGATION AIDS  
RADAR NAVIGATION  
SOLAR COMPASSES

**TACHISTOSCOPES**  
0501 1406 2310  
RT VISUAL PERCEPTION

**TACHOMETERS**  
1402 1406 1504  
BT #AIRCRAFT INSTRUMENTS  
#DISPLAY DEVICES  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
SPEED INDICATORS  
RT ANGULAR VELOCITY  
TIMING DEVICES  
VELOCITY MEASUREMENT

**TACHYCARDIA**  
0401 0405 0408  
BT #DISEASES  
HEART RATE  
#RATES (PER TIME)

**TACHYONS**  
2403 2405  
BT ELEMENTARY PARTICLES  
#PARTICLES

**TACHYPNEA**  
0401 0405 0408  
BT #RATES (PER TIME)  
RESPIRATORY RATE

**TACKINESS**  
0603 3408  
RT ADHESION  
TACTICAL AIR NAVIGATION  
USE TACAN

## TACTICS

## TACTICS

3401  
RT ATTACKING (ASSAULTING)  
DEPLOYMENT  
EVASIVE ACTIONS  
MILITARY TECHNOLOGY  
TACTILE DISCRIMINATION  
0404 0408  
BT #DISCRIMINATION  
#PERCEPTION  
SENSORY DISCRIMINATION  
SENSORY PERCEPTION  
TOUCH  
TACTILE SENSATION  
USE TOUCH  
TAFEL LAW  
0902 1001 1002 2304  
BT #LAWS  
RT #ELECTRODES  
ELECTROLYSIS  
PICKS EQUATION  
POLARIZATION (CHARGE SEPARATION)

## TAGGING

USE MARKING  
TAIL ASSEMBLIES  
0102 0104 0201  
UP HORIZONTAL TAILS  
TAIL MOUNTINGS  
TAILS (ASSEMBLIES)  
VERTICAL TAILS  
NT SWING TAIL ASSEMBLIES  
RT AERIAL RUDDERS  
AFTERBODIES  
AIRCRAFT PARTS  
AIRCRAFT STRUCTURES  
#AIRFOILS  
AIRFRAMES  
BOATTAILS  
BODY-WING AND TAIL CONFIGURATIONS  
BOOM  
#CONTROL SURFACES  
ELEVATORS (CONTROL SURFACES)  
FINS  
HORIZONTAL TAIL SURFACES  
HYDROFOILS  
MARINE RUDDERS  
MISSILE STRUCTURES  
RUDDERS  
SAILS  
STABILIZERS (FLUID DYNAMICS)  
T TAIL SURFACES  
TAIL SURFACES  
#VANES  
TAIL MOUNTINGS  
USE TAIL ASSEMBLIES  
TAIL PLANES  
USE HORIZONTAL TAIL SURFACES  
TAIL SURFACES  
0101 0102 0104 0202  
NT HORIZONTAL TAIL SURFACES  
SWEEPBACK TAIL SURFACES  
T TAIL SURFACES  
TRAPEZOIDAL TAIL SURFACES  
RT #CONTROL SURFACES  
ELEVATORS (CONTROL SURFACES)  
RUDDERS  
STABILIZERS (FLUID DYNAMICS)  
SURFACES  
TAIL ASSEMBLIES  
TAILLESS AIRCRAFT  
0201 0205  
UP FLYING WING AIRCRAFT  
NT AVRO 707 AIRCRAFT  
B-58 AIRCRAFT  
DH 108 AIRCRAFT  
P-102 AIRCRAFT  
P-106 AIRCRAFT  
PD 2 AIRCRAFT  
HP-115 AIRCRAFT  
MIRAGE 3 AIRCRAFT  
SC-1 AIRCRAFT  
VULCAN AIRCRAFT  
RT AIRCRAFT  
#JET AIRCRAFT  
LOW WING AIRCRAFT  
MILITARY AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT

## TAILING

## USE DESIGN

## TAILS (ASSEMBLIES)

## USE TAIL ASSEMBLIES

## TAKEOFF

3102 1101  
NT VERTICAL TAKEOFF  
RT AIR TRAFFIC CONTROL  
AIRCRAFT LANDING  
ASCENT  
CLIMBING FLIGHT  
JATO ENGINES  
#LANDING  
#HANGOVERS  
RUNWAYS  
TAKEOFF RUNS  
TAKEOFF RUNS  
0201 1101 1102 3102  
RT AIRCRAFT PERFORMANCE  
DISTANCE  
RUNWAY ALIGNMENT  
SHORT TAKEOFF AIRCRAFT  
TAKEOFF

## TAKEOFF SYSTEMS

## USE AIRCRAFT LAUNCHING DEVICES

## TALC

1305 1805 1806  
UP STEATITE  
BT #MAGNESIUM COMPOUNDS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
#SODIUM COMPOUNDS  
SODIUM SILICATES

## TALKING

0408 0410 0702 0703  
NT SYLLABLES  
WORDS (LANGUAGE)  
BT #SPEECH  
RT SENTENCES  
#SIGNAL TRANSMISSION

## TALON AIRCRAFT

## USE T-38 AIRCRAFT

## TALOS MISSILE

## 3101 3401

## BT #MISSILES

SURFACE TO AIR MISSILES  
BUMBLEBEE PROJECT  
LIQUID PROPELLANT ROCKET ENGINES  
MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES

## TANDEM ROTOR HELICOPTERS

## 0206

NT CH-46 HELICOPTER  
CH-47 HELICOPTER  
H-25 HELICOPTER  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT

## TANDEM WING AIRCRAFT

## 0102 0103 0104 0202

## NT X-22A AIRCRAFT

## BT X-19 AIRCRAFT

## AIRCRAFT

## BIPLANES

## CANARD CONFIGURATIONS

## #JET AIRCRAFT

## RESEARCH AIRCRAFT

## SUBSONIC AIRCRAFT

## X-22 AIRCRAFT

## TANGENTS

## 1902

BT #ANALYSIS (MATHEMATICS)  
ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY  
#FUNCTIONS (MATHEMATICS)  
#GEOMETRY  
PERIODIC FUNCTIONS  
REAL VARIABLES  
TRANSCENDENTAL FUNCTIONS  
TRIGONOMETRIC FUNCTIONS  
RT CHORDS (GEOMETRY)

## TANGLING

## 0404 0410 1504 3407

## BT CONFUSION

## ENTRAPMENT

## MIXING

## TANK GEOMETRY

## 1202 1902 2702 2806

## BT #GEOMETRY

## RT LIQUID SLOSHING

## PROPELLANT TANKS

## STORAGE TANKS

## #TANKS (CONTAINERS)

## ULLAGE

## NASA THESAURUS (ALPHABETICAL LISTING)

## TANK TRUCKS

1103  
BT #SURFACE VEHICLES  
TRUCKS  
RT TANKERS  
TRAILERS  
TANKER AIRCRAFT  
0207  
RT AIR TO AIR REPOZELING  
AIRCRAFT  
AIRCRAFT FUELS  
BOMBER AIRCRAFT  
FUEL TANKS  
MILITARY AIRCRAFT  
TANKERS  
VALIANT AIRCRAFT  
TANKER SHIPS  
1103 1204  
BT CARGO SHIPS  
SHIPS  
#SURFACE VEHICLES  
#WATER VEHICLES  
RT CARGO SHIPS  
TANKERS

## TANKERS

1102 3401  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

## RT TANK TRUCKS

## TANKER AIRCRAFT

## TANKER SHIPS

## #TANKS (CONTAINERS)

## 1103 1502

## NT BUNKERS (FUEL)

## CYLINDRICAL TANKS

## FUEL TANKS

## PROPELLANT TANKS

## SPHERICAL TANKS

## STORAGE TANKS

## WING TANKS

## RT BASINS (CONTAINERS)

## BOTTLES

## CHEMICAL REACTORS

## CONTAINERS

## DRUMS (CONTAINERS)

## LIQUID FILLED SHELLS

## MATERIALS HANDLING

## PIPE NOZZLES

## PRESSURE VESSELS

## RECEIVERS

## STRUCTURES

## TANK GEOMETRY

## TOWERS

## WING-FUSELAGE STORES

## TANTALUM

## 1703

## BT #METALS

## #REFRACTORY MATERIALS

## REFRACTORY METALS

## TRANSITION METALS

## TANTALUM ALLOYS

## 1701 1704 3305

## BT #ALLOYS

## HEAT RESISTANT ALLOYS

## #REFRACTORY MATERIALS

## REFRACTORY METAL ALLOYS

## TANTALUM CARBIDES

## 0603 1804

## BT CARBIDES

## #CARBON COMPOUNDS

## TANTALUM COMPOUNDS

## TANTALUM COMPOUNDS

## 0603 1804

## NT TANTALUM CARBIDES

## TANTALUM NITRIDES

## TANTALUM OXIDES

## BT GROUP 5B COMPOUNDS

## METAL COMPOUNDS

## TANTALUM NITRIDES

## 0603 1804

## BT NITRIDES

## #NITROGEN COMPOUNDS

## TANTALUM COMPOUNDS

## TANTALUM OXIDES

## 0603 1804

## BT #CHALCOGENIDES

## METAL OXIDES

## OXIDES

## TANTALUM COMPOUNDS

## TANZANIA

## 1305

# NASA THESAURUS (ALPHABETICAL LISTING)

**BT AFRICA**  
**NATIONS**  
**TAPE MERGING**  
**USE COLLATING**  
**#DATA PROCESSING**  
**MAGNETIC TAPES**  
**TAPE RECORDERS**  
**0702 0905 2301 3405**  
**UP MAGNETIC TAPE RECORDERS**  
**BT DATA RECORDERS**  
**ELECTRONIC RECORDING SYSTEMS**  
**MAGNETIC TAPES**  
**RECORDERS**  
**#RECORDING INSTRUMENTS**  
**TAPER**  
**USE TAPERING**  
**TAPERED COLUMNS**  
**3203**  
**BT COLUMNS (SUPPORTS)**  
**#STRUCTURAL MEMBERS**  
**TAPERED WINGS**  
**USE SWEET WINGS**  
**TAPERING**  
**3408**  
**UP TAPER**  
**TAPES**  
**0801 0802 0803 1502 1504 1507**  
**(USE OF A MORE SPECIFIC TERM IS**  
**RECOMMENDED--CONSULT THE TERMS LISTED**  
**BELOW)**  
**BT ADHESIVES**  
**#FASTENERS**  
**MAGNETIC TAPES**  
**PLASTIC TAPES**  
**PLAYBACKS**  
**PUNCHED TAPES**  
**RIBBONS**  
**SEALS (STOPPERS)**  
**SPICING**  
**TAPS**  
**0902 0904**  
**BT #CUTTERS**  
**DRILLS**  
**MACHINE TOOLS**  
**#TOOLS**  
**TARE (DATA REDUCTION)**  
**USE DATA REDUCTION**  
**TARGET ACQUISITION**  
**0709 1410 2102 3101 3401**  
**BT ACQUISITION**  
**RT #DETECTION**  
**HIGH ALT TARGET AND BACKGROUND**  
**MEASUREMENT**  
**HATTS (SYSTEMS)**  
**MISSILE DETECTION**  
**MOVING TARGET INDICATORS**  
**SOUND BANGING**  
**SURVEILLANCE**  
**TARGET RECOGNITION**  
**#TARGETS**  
**TARGET DRONE AIRCRAFT**  
**0201 0207 3401**  
**BT FIREBEE 2 TARGET DRONE AIRCRAFT**  
**JINDIVIK TARGET AIRCRAFT**  
**BT DRONE AIRCRAFT**  
**#DRONE VEHICLES**  
**#PILOTLESS AIRCRAFT**  
**#TARGETS**  
**BT MILITARY AIRCRAFT**  
**TARGET PENETRATION**  
**USE TERMINAL BALLISTICS**  
**TARGET RECOGNITION**  
**0502 0705 2103 3401**  
**BT #DETECTION**  
**#RECOGNITION**  
**BT #DISCRIMINATION**  
**MISSILE DETECTION**  
**MISSILE SIGNATURES**  
**RADAR SIGNATURES**  
**SIGNATURE ANALYSIS**  
**#SIGNATURES**  
**SURVEILLANCE**  
**TARGET ACQUISITION**  
**#TARGETS**  
**TRADEX RADAR SYSTEM**  
**TARGET SIMULATORS**  
**1107 1108 3201**  
**BT #SIMULATORS**  
**RT COMPUTERIZED SIMULATION**  
**#DISPLAY DEVICES**  
**TARGET THICKNESS**  
**2202 3201 3203**

**BT #DIMENSIONS**  
**THICKNESS**  
**BT PARTICLE ACCELERATOR TARGETS**  
**#TARGETS**  
**#TARGETS**  
**0701 0702 1904 2311 3006 3009 3401**  
**UP TOWED TARGETS**  
**BT DART TARGET**  
**JINDIVIK TARGET AIRCRAFT**  
**PARTICLE ACCELERATOR TARGETS**  
**RADAR TARGETS**  
**TARGET DRONE AIRCRAFT**  
**COMMAND AND CONTROL**  
**#DETECTION**  
**FIREBEE 2 TARGET DRONE AIRCRAFT**  
**#IRRADIATION**  
**MISSIONS**  
**RADAR ECHOES**  
**RADAR TARGET SCATTER SITE PROGRAM**  
**SANDPIPER TARGET MISSILE**  
**SKYDART 2 ROCKET VEHICLE**  
**SURVEILLANCE**  
**TARGET ACQUISITION**  
**TARGET RECOGNITION**  
**TARGET THICKNESS**  
**TARS**  
**1808 3404**  
**BT ASPHALT**  
**GUMS (SUBSTANCES)**  
**PITCH (MATERIAL)**  
**TARTAR MISSILE**  
**3101 3401**  
**BT ANTIAIRCRAFT MISSILES**  
**#MISSILES**  
**SURFACE TO AIR MISSILES**  
**BT AJ-10 ENGINE**  
**BUMBLEBEE PROJECT**  
**SOLID PROPELLANT ROCKET ENGINES**  
**TASK COMPLEXITY**  
**0408 0410 0502**  
**BT COMPLEXITY**  
**RT COSTS**  
**PERFORMANCE**  
**QUALITY CONTROL**  
**SCHEDULING**  
**TASK SEQUENCES**  
**USE CONTROL EQUIPMENT**  
**SEQUENTIAL CONTROL**  
**TASKS**  
**0408 0410 0502**  
**UP JOBS**  
**BT AUDITORY TASKS**  
**VISUAL TASKS**  
**RT COSTS**  
**ELEMENTS**  
**PHYSICAL WORK**  
**PROJECTS**  
**QUALITY CONTROL**  
**SCHEDULING**  
**TESTS**  
**TASMANIA**  
**1305**  
**BT #ISLANDS**  
**RT AUSTRALIA**  
**TASTE**  
**0404 0408**  
**UP GUSTATORY PERCEPTION**  
**BT #PERCEPTION**  
**SENSORY PERCEPTION**  
**RT CHEMORECEPTORS**  
**TAURID METEOROIDS**  
**3005**  
**BT #CELESTIAL BODIES**  
**METEOROID SHOWERS**  
**METEOROIDS**  
**TAURUS CONSTELLATION**  
**3001**  
**BT CONSTELLATIONS**  
**RT CRAB NEBULA**  
**T TAURI STARS**  
**TAUTOMERS**  
**0603 1808**  
**BT ISOMERS**  
**TAXIING**  
**0201 0203**  
**RT AIR TRAFFIC CONTROL**  
**AIRFIELD SURFACE MOVEMENTS**  
**RUNWAYS**  
**TAXONOMY**  
**0402 0404 0409**  
**RT #CLASSIFICATIONS**  
**CLASSIFYING**

# TECHNETIUM FLUORIDES

**ZOOLOGY**  
**TAYLOR INSTABILITY**  
**1202 2502**  
**RT DENSITY DISTRIBUTION**  
**INTERFACE STABILITY**  
**PERTURBATION THEORY**  
**ROTATING FLUIDS**  
**TWO DIMENSIONAL FLOW**  
**TAYLOR MANIFEST ANXIETY SCALE**  
**0408 0410 1905**  
**RT ANXIETY**  
**PHYSIOLOGICAL TESTS**  
**#PSYCHOLOGICAL EFFECTS**  
**PSYCHOLOGICAL TESTS**  
**TAYLOR SERIES**  
**1902**  
**UP TAYLOR THEOREM**  
**BT MACLAURIN SERIES**  
**BT #ANALYSIS (MATHEMATICS)**  
**CALCULUS**  
**POWER SERIES**  
**REAL VARIABLES**  
**SERIES (MATHEMATICS)**  
**RT #THEOREMS**  
**TAYLOR THEOREM**  
**USE TAYLOR SERIES**  
**TCG (TRACKING)**  
**USE TRANSPONDER CONTROL GROUP**  
**TD-1 SATELLITE**  
**3107**  
**BT #SATELLITES**  
**TDR SATELLITES**  
**3107**  
**UP TRACKING AND DATA RELAY SATELLITES**  
**BT #SATELLITES**  
**RT #COMMUNICATING**  
**DATA TRANSMISSION**  
**RADIO RELAY SYSTEMS**  
**SATELLITE NETWORKS**  
**SATELLITE TRANSMISSION**  
**#TELECOMMUNICATION**  
**TELEMETRY**  
**TE-289 ENGINE**  
**2808**  
**BT #ENGINES**  
**ROCKET ENGINES**  
**SOLID PROPELLANT ROCKET ENGINES**  
**RT EXOS SOUNDING ROCKET**  
**TE-385 ENGINE**  
**2808**  
**BT #ENGINES**  
**RETROCKET ENGINES**  
**ROCKET ENGINES**  
**TEACHING**  
**USE #EDUCATION**  
**TEACHING MACHINES**  
**0502 0506 0802 0804 3404**  
**BT TRAINING DEVICES**  
**RT #LEARNING**  
**LEARNING MACHINES**  
**MACHINERY**  
**TEAMS**  
**3406 3409**  
**RT BUREAUS (ORGANIZATIONS)**  
**FEDERATIONS**  
**INSTITUTIONS**  
**#ORGANIZATIONS**  
**PROJECTS**  
**UNIVERSITY PROGRAM**  
**TEARING**  
**1504 3204 3407**  
**RT #MECHANICAL PROPERTIES**  
**RUPTURING**  
**SHREDDING**  
**TECHNETIUM**  
**1703 2406**  
**BT #CHEMICAL ELEMENTS**  
**#METALS**  
**TRANSITION METALS**  
**TECHNETIUM COMPOUNDS**  
**0603 1804**  
**BT TECHNETIUM FLUORIDES**  
**RT GROUP 7B COMPOUNDS**  
**METAL COMPOUNDS**  
**TECHNETIUM FLUORIDES**  
**0603 1804**  
**BT FLUORIDES**  
**#FLUORINE COMPOUNDS**  
**HALIDES**  
**#HALOGEN COMPOUNDS**  
**METAL HALIDES**  
**TECHNETIUM COMPOUNDS**

# TECHNETIUM ISOTOPIES

## TECHNETIUM ISOTOPIES

0603 1703  
BT #CHEMICAL ELEMENTS  
ISOTOPIES  
TRANSITION METALS  
TECHNICAL WRITING  
3404 3405  
RT ABSTRACTS  
DOCUMENTATION  
EDITING  
RECORDS  
SPECIFICATIONS  
TRANSLATING  
TECHNIQUES  
USE METHODOLOGY  
TECHNOLOGICAL FORECASTING  
1905 3402 3404  
BT #FORECASTING  
RT ESTIMATING  
#PREDICTIONS  
TECHNOLOGY TRANSFER  
TECHNOLOGIES  
3404  
BT MARINE TECHNOLOGY  
RT #INDUSTRIES  
LOW GRAVITY MANUFACTURING  
MANUFACTURING  
NUCLEONICS  
TECHNOLOGY ASSESSMENT  
TECHNOLOGY UTILIZATION  
URBAN DEVELOPMENT  
TECHNOLOGY ASSESSMENT  
3402 3403 3404 3406 3409  
BT ASSESSMENTS  
RT EVALUATION  
#INDUSTRIES  
MANUFACTURING  
TECHNOLOGIES  
VALUE  
TECHNOLOGY FEASIBILITY SPACECRAFT  
3110  
BT #UNMANNED SPACECRAFT  
RT SCIENTIFIC SATELLITES  
SPACECRAFT  
TECHNOLOGY TRANSFER  
3404 3405  
BT #COMMUNICATING  
#COMMUNICATION  
DOCUMENTATION  
#DOCUMENTS  
INFORMATION FLOW  
INFORMATION MANAGEMENT  
REPORTS  
SELECTIVE DISSEMINATION OF  
INFORMATION  
TECHNOLOGICAL FORECASTING  
TECHNOLOGY UTILIZATION  
TRANSFERRING  
TECHNOLOGY UTILIZATION  
3404  
RT #INDUSTRIES  
MANUFACTURING  
PATENT APPLICATIONS  
RESEARCH AND DEVELOPMENT  
TECHNOLOGIES  
TECHNOLOGY TRANSFER  
UTILIZATION  
TECTONIC MOVEMENT  
USE TECTONICS  
TECTONICS  
1306 1308  
UP TECTONIC MOVEMENT  
BT #GEOLOGY  
RT DEPRESSION  
EARTH MOVEMENTS  
EARTH PLANETARY STRUCTURE  
GEOPHYSICS  
TEE  
USE T SHAPE  
TEETERING  
2311 3407  
BT MOTION  
TEETH  
0402 0405  
(EXCLUDES GEAR TEETH AND OTHER  
MECHANICAL DEVICES)  
BT #DIGESTIVE SYSTEM  
RT DENTAL CALCULI  
DENTISTRY  
Mastication  
MOUTH

## TEFLON (TRADEMARK)

1808 1810  
BT #PLASTICS  
RT POLYMERS  
POLYTETRAFLUOROETHYLENE  
#RESINS  
SYNTHETIC RESINS  
TEKITE PROJECT  
3409  
BT NASA PROGRAMS  
#PROGRAMS  
SPACE PROGRAMS  
TEKTITES  
1305 1806 3005  
BT AUSTRALITES  
BEDIASITES  
RT #CELESTIAL BODIES  
METEORITES  
STONY METEORITES  
RT CHONDRITES  
COESITE  
CYRILLID METEORITIDS  
METEORITIC COMPOSITION  
METEORITIC MICROSTRUCTURES  
NATURAL SATELLITES  
STONY METEORITES  
TELECHIRICS  
USE REMOTE HANDLING  
#TELECOMMUNICATION  
0702 0707 0708 0709  
UP COMMUNICATION SYSTEMS  
RT AIRCRAFT COMMUNICATION  
AUTOMATIC PICTURE TRANSMISSION  
BIOTELEMETRY  
BROADCASTING  
CIRCUMLUNAR COMMUNICATION  
DEFENSE COMMUNICATIONS SATELLITE  
SYSTEM  
DIGITAL SPACECRAFT TELEVISION  
FACSIMILE COMMUNICATION  
GROUND-AIR-GROUND COMMUNICATIONS  
INTERPLANETARY COMMUNICATION  
LUNAR COMMUNICATION  
MULTICHANNEL COMMUNICATION  
OPTICAL COMMUNICATION  
P.A.C.M. TELEMETRY  
PULSE COMMUNICATION  
PULSE FREQUENCY MODULATION  
TELEMETRY  
RADIO COMMUNICATION  
RADIO RELAY SYSTEMS  
RADIO TELEGRAPHY  
RADIO TELEMETRY  
REENTRY COMMUNICATION  
SPACE COMMUNICATION  
SPACECRAFT ANTENNAS  
SPACECRAFT COMMUNICATION  
TELEMETRY  
TELEPHONY  
TELEPHOTOMETRY  
TRANSOCEANIC COMMUNICATION  
VIDEO COMMUNICATION  
VOICE COMMUNICATION  
VOICE DATA PROCESSING  
WIDEBAND COMMUNICATION  
WIRELESS COMMUNICATIONS  
RT ANTENNAS  
CHANNELS  
COMMUNICATION SATELLITES  
COMPUTERS  
#DATA PROCESSING  
DATA SAMPLING  
DATA TRANSMISSION  
DEMODULATION  
DETECTORS  
DIGITAL SYSTEMS  
#ELECTROMAGNETIC RADIATION  
INFORMATION THEORY  
#INTERFACES  
INTERPHONES  
#MODULATION  
MOLNIYA SATELLITES  
MORSE CODE  
#ONBOARD EQUIPMENT  
POINT TO POINT COMMUNICATIONS  
SATELLITE ANTENNAS  
SIGNAL DETECTION  
SIGNAL DETECTORS  
SIGNAL ENCODING  
#SIGNAL TRANSMISSION  
SIGNALS  
SYSTEMS

# NASA THESAURUS, (ALPHABETICAL LISTING)

TDR SATELLITES  
TRANSCONTINENTAL SYSTEMS  
#TRANSMISSION  
TRANSMISSION CIRCUITS  
#TRANSMISSION LINES  
#TRANSMITTERS  
TRANSOCEANIC SYSTEMS  
VIDEO DATA  
TELEGRAPH SYSTEMS  
0701 0702 0710 2402  
UP TELEGRAPHY  
RT PULSE COMMUNICATION  
RADIO COMMUNICATION  
SYSTEMS  
TELEPRINTERS  
TELETYPEWRITERS  
TELEGRAPHY  
USE TELEGRAPH SYSTEMS  
TELEMETERS  
USE TELEMETRY  
TELEMETRY  
0708  
UP TELEMETERS  
TELEMETRY AUTO REDUCTION SYSTEM  
RT BIOTELEMETRY  
P.A.C.M. TELEMETRY  
PCM TELEMETRY  
PULSE FREQUENCY MODULATION  
TELEMETRY  
RADIO TELEMETRY  
BT #SIGNAL TRANSMISSION  
#TELECOMMUNICATION  
RT #COMMUNICATION EQUIPMENT  
DATA LINKS  
DATA RETRIEVAL  
DATA TRANSMISSION  
DECOMPUTATORS  
IN-FLIGHT MONITORING  
#MEASURING INSTRUMENTS  
PULSE COMMUNICATION  
RADIO COMMUNICATION  
SIGNAL PROCESSING  
SPIRAL ANTENNAS  
TDR SATELLITES  
TIME DIVISION MULTIPLEXING  
TRAJECTORY MEASUREMENT  
TRANSPONDER CONTROL GROUP  
WEATHER DATA RECORDERS  
WIRELESS COMMUNICATIONS  
TELEMETRY AUTO REDUCTION SYSTEM  
USE DATA REDUCTION  
TELEMETRY  
TELEOPERATORS  
0503 2102 2104  
BT CONTROL EQUIPMENT  
RT EXOSKELETONS  
HUMAN FACTORS ENGINEERING  
MAN MACHINE SYSTEMS  
MANIPULATORS  
REMOTE CONTROL  
REMOTE HANDLING  
TELEPHONES  
0701 0702  
RT RADIOTELEPHONES  
RT EARPHONES  
TELEPHONY  
TELEPHONY  
0702 0705 0710 0902  
BT RADIO COMMUNICATION  
#TELECOMMUNICATION  
VOICE COMMUNICATION  
RT #COMMUNICATION EQUIPMENT  
CROSSTALK  
ECHO SUPPRESSORS  
RADIOTELEPHONES  
TELEPHONES  
VERBAL COMMUNICATION  
TELEPHOTOMETERS  
USE TELEPHOTOMETRY  
TELEPHOTOMETRY  
1406 2306 2310  
UP TELEPHOTOMETERS  
BT #OPTICAL MEASUREMENT  
PHOTOMETRY  
RADIO COMMUNICATION  
#TELECOMMUNICATION  
RT #COMMUNICATION EQUIPMENT  
TELEPRINTERS  
0702 0703 1504 3405  
BT PRINTERS  
TELETYPEWRITERS  
#TYPEWRITERS

# NASA THESAURUS (ALPHABETICAL LISTING)

**BT** KEYING  
 PRINTERS (DATA PROCESSING)  
 RECEIVERS  
 TELEGRAPH SYSTEMS  
**#TELESCOPES**  
 1412  
**NT** APOLLO TELESCOPE MOUNT  
 ASTRONOMICAL TELESCOPES  
 CELESTIAL  
 HELIOMETERS  
 KILOMETER WAVE ORBITING TELESCOPE  
 MANNED ORBITAL TELESCOPES  
 MULTISPECTRAL TRACKING TELESCOPES  
 PARTICLE TELESCOPES  
 PYROHELIONMETERS  
 RADIO TELESCOPES  
 REFLECTING TELESCOPES  
 REFRACTING TELESCOPES  
 SCHMIDT CAMERAS  
 SPACEBORNE TELESCOPES  
 SPECTROSCOPIC TELESCOPES  
 STRATOSPHERE TELESCOPES  
 X RAY TELESCOPES  
**RT** ANTENNAS  
 ASTRONOMICAL OBSERVATORIES  
 ASTRONOMY  
 BINOCULARS  
 EYEPIECES  
 LENSES  
 MIRRORS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 PERISCOPES  
 #REFLECTORS  
 SOLAR INSTRUMENTS  
 SPACEBORNE ASTRONOMY  
**TELETYPEWRITER SYSTEMS**  
 0702 1504 3405  
**RT** FACSIMILE COMMUNICATION  
 MICROWAVE TRANSMISSION  
 TELETYPEWRITERS  
**TELETYPEWRITERS**  
 0702 1504 3405  
**BT** TELEPRINTERS  
**BT** #TYPEWRITERS  
**RT** KEYING  
 RECEIVERS  
 TELEGRAPH SYSTEMS  
 TELETYPEWRITER SYSTEMS  
**TELEVISION CAMERAS**  
 0701 0702 1410 1412  
**BT** CAMERAS  
 #OPTICAL EQUIPMENT  
 #PHOTOGRAPHIC EQUIPMENT  
 TELEVISION EQUIPMENT  
**RT** CAMERA TUBES  
 CLOSED CIRCUIT TELEVISION  
 LALLEMAND CAMERAS  
 OPTICAL SCANNERS  
 ORTHICONS  
 #PHOTOGRAPHIC EQUIPMENT  
 RETURN BEAM VIDICONS  
 SATELLITE TELEVISION  
 TELEVISION SYSTEMS  
**TELEVISION EQUIPMENT**  
 0701 0702 1410 1412  
**NT** IMAGE DISSECTOR TUBES  
 MONOSCOPES  
 TELEVISION CAMERAS  
 TELEVISION RECEIVERS  
**RT** CATHODE RAY TUBES  
 DIPLEXERS  
 EQUIPMENT  
 FLYING SPOT SCANNERS  
 ORTHICONS  
 PICTURE TUBES  
 TELEVISION SYSTEMS  
 TELEVISION TRANSMISSION  
 VIDEO EQUIPMENT  
**TELEVISION RECEIVERS**  
 0702 0710 0901  
**BT** RECEIVERS  
 TELEVISION EQUIPMENT  
**RT** CLOSED CIRCUIT TELEVISION  
 TELEVISION RECEPTION  
 TUNERS  
**TELEVISION RECEPTION**  
 0702 0710 0901  
**BT** SIGNAL RECEPTION  
**RT** COLOR TELEVISION  
 RADIO RECEIVERS  
 RADIO RECEPTION

RECEIVING  
 TELEVISION RECEIVERS  
 TELEVISION SYSTEMS  
 TELEVISION TRANSMISSION  
**TELEVISION SYSTEMS**  
 0506 0701 0702 0705 0708 1412  
**RT** #COMMUNICATION EQUIPMENT  
 FACSIMILE COMMUNICATION  
 IMAGING TECHNIQUES  
 RADIO COMMUNICATION  
 SPACE COMMUNICATION  
 SYSTEMS  
 TELEVISION CAMERAS  
 TELEVISION EQUIPMENT  
 TELEVISION RECEPTION  
 TELEVISION TRANSMISSION  
 VIDEO COMMUNICATION  
 VIDEO DATA  
**TELEVISION TRANSMISSION**  
 0702 0710 0901  
**BT** ELECTROMAGNETIC WAVE TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
**RT** AUTOMATIC PICTURE TRANSMISSION  
 CLOSED CIRCUIT TELEVISION  
 COLOR TELEVISION  
 DOUBLE SIDEBAND TRANSMISSION  
 HOLMIYA SATELLITES  
 RADIO TRANSMITTERS  
 SATELLITE TELEVISION  
 SATELLITE TRANSMISSION  
 SINGLE SIDEBAND TRANSMISSION  
 SWEAR  
 SPACECRAFT TELEVISION  
 SWEEP FREQUENCY  
 TELEVISION EQUIPMENT  
 TELEVISION RECEPTION  
 TELEVISION SYSTEMS  
 TIME DIVISION MULTIPLEXING  
 #TRANSMITTERS  
 WAVE PROPAGATION  
**TELEGRAPH THEORY**  
 USE CYRATORS  
 NETWORK ANALYSIS  
 NETWORK SYNTHESIS  
**TELLURIC CURRENT MICROPULSATIONS**  
 USE MICROPULSATIONS  
 TELLURIC CURRENTS  
**TELLURIC CURRENTS**  
 1301 1302 1308 2304  
**UF** EARTH CURRENTS  
 TELLURIC CURRENT MICROPULSATIONS  
 TELLURIC FIELDS  
**BT** #ELECTRIC CURRENT  
 #ELECTRICITY  
 GEOELECTRICITY  
**RT** ATMOSPHERIC ELECTRICITY  
 AURORAL ELECTROJETS  
 DYNAMO THEORY  
 GEOMAGNETIC MICROPULSATIONS  
**TELLURIC FIELDS**  
 USE ELECTRIC FIELDS  
 TELLURIC CURRENTS  
**TELLURIC LINES**  
 1301 1302 1308 1411 2306  
**BT** ABSORPTION SPECTRA  
 ELECTROMAGNETIC SPECTRA  
 H LINES  
 LINE SPECTRA  
 RADIATION SPECTRA  
 #SPECTRA  
 SPECTRAL BANDS  
**TELLURIDES**  
 0603 1704 1804  
**NT** BISMUTH TELLURIDES  
 CADMIUM TELLURIDES  
 INDIUM TELLURIDES  
 LANTHANUM TELLURIDES  
 LEAD TELLURIDES  
 MERCURY TELLURIDES  
 TIN TELLURIDES  
 ZINC TELLURIDES  
**BT** #CHALCOGENIDES  
 #TELLURIUM COMPOUNDS  
**RT** INTERMETALLICS  
**TELLURIUM**  
 0603 1703  
**NT** TELLURIUM ISOTOPES  
**BT** #CHEMICAL ELEMENTS  
 GERMANIUM  
 ISOTOPES  
 NUCLIDES

## #TEMPERATURE

TELLURIUM ALLOYS  
 1701 1704  
**BT** #ALLOYS  
**#TELLURIUM COMPOUNDS**  
 0603 1804  
**NT** BISMUTH TELLURIDES  
 CADMIUM TELLURIDES  
 INDIUM TELLURIDES  
 LANTHANUM TELLURIDES  
 LEAD TELLURIDES  
 MERCURY TELLURIDES  
 TELLURIDES  
 TIN TELLURIDES  
 ZINC TELLURIDES  
**RT** GROUP 6A COMPOUNDS  
**TELLURIUM ISOTOPES**  
 0603 1703 2406  
**UF** TELLURIUM 119  
**BT** #CHEMICAL ELEMENTS  
 GERMANIUM  
 ISOTOPES  
 NUCLIDES  
 TELLURIUM  
**TELLURIUM 119**  
 USE TELLURIUM ISOTOPES  
**TELLURIMETERS**  
 0705 1406  
**BT** DISTANCE MEASURING EQUIPMENT  
 #MEASURING INSTRUMENTS  
**RT** GEODIMETERS  
 RANGE FINDERS  
**TELSTAR PROJECT**  
 0702 0706 3107 3409  
**BT** #PROGRAMS  
 PROJECTS  
**RT** ARTIFICIAL SATELLITES  
 COMMUNICATION SATELLITES  
 COMSAT PROGRAM  
**TELSTAR 1 SATELLITE**  
 0706 3107  
**BT** ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 TELSTAR SATELLITES  
**TELSTAR 2 SATELLITE**  
 0706 3107  
**BT** ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 TELSTAR SATELLITES  
**TELSTAR SATELLITES**  
 0702 0706 3107 3409  
**NT** TELSTAR 1 SATELLITE  
 TELSTAR 2 SATELLITE  
**BT** ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
**RT** COMSAT PROGRAM  
 THOR DELTA LAUNCH VEHICLE  
**TEMPER (METALLURGY)**  
 1504 1704  
**RT** COLD WORKING  
 DUCTILITY  
 HARDNESS  
 #HEAT TREATMENT  
**TEMPERATURE REGIONS**  
 1305 2001  
**UF** MIDLATITUDES  
 SUBTROPICAL REGIONS  
**BT** #REGIONS  
**RT** CLIMATOLOGY  
 GEOGRAPHY  
 POLAR REGIONS  
 TROPICAL REGIONS  
**#TEMPERATURE**  
 1408 2003 2311 2404 3304 3408  
**UF** BODY TEMPERATURE (NON-BIOLOGICAL)  
**NT** AMBIENT TEMPERATURE  
 ATMOSPHERIC TEMPERATURE  
 AURORAL TEMPERATURE  
 BODY TEMPERATURE  
 BRIGHTNESS TEMPERATURE  
 COMBUSTION TEMPERATURE  
 CRITICAL TEMPERATURE  
 CURIE TEMPERATURE  
 FLAME TEMPERATURE  
 FLASH POINT  
 GAS TEMPERATURE  
 HIGH TEMPERATURE  
 IGNITION TEMPERATURE  
 ION TEMPERATURE  
 IONOSPHERIC TEMPERATURE



## TEMPERATURE COMPENSATION

LOW TEMPERATURE  
 LUNAR TEMPERATURE  
 NEEL TEMPERATURE  
 NOISE TEMPERATURE  
 OPERATING TEMPERATURE  
 PLANETARY TEMPERATURE  
 PLASMA TEMPERATURE  
 ROOM TEMPERATURE  
 SATELLITE TEMPERATURE  
 SKIN TEMPERATURE (BIOLOGY)  
 SKIN TEMPERATURE (NON-BIOLOGICAL)  
 SOLAR TEMPERATURE  
 SPACE TEMPERATURE  
 STAGNATION TEMPERATURE  
 SUBZERO TEMPERATURE  
 SURFACE TEMPERATURE  
 TRANSITION TEMPERATURE  
 WALL TEMPERATURE  
 WATER TEMPERATURE  
 RT ADIABATIC CONDITIONS  
 AIR CONDITIONING  
 BIOLOGICAL EFFECTS  
 CLIMATOLOGY  
 COMFORT  
 ELECTRON ENERGY  
 EMISSIVITY  
 #ENVIRONMENTS  
 GIBBS-HELMHOLTZ EQUATIONS  
 HEAT  
 #HEATING  
 HUMIDITY  
 ISOTHERMS  
 LAPSE RATE  
 MELTING POINTS  
 #METEOROLOGY  
 REFRIGERATING  
 SAHA EQUATIONS  
 TEMPERATURE CONTROL  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEPHIGRAMS  
 THERMAL CONDUCTIVITY  
 THERMAL CYCLING TESTS  
 THERMAL EXPANSION  
 THERMAL SHOCK  
 THERMAL STABILITY  
 #THERMODYNAMIC PROPERTIES  
 VENTILATION  
 TEMPERATURE COMPENSATION  
 0710 2003 2601 3303  
 BT INSTRUMENT COMPENSATION  
 RT COMPENSATION  
 TEMPERATURE CONTROL  
 0503 0506 1408 2003 3303 3304 3305  
 UP HEAT REGULATION  
 RT AIR CONDITIONING  
 #AUTOMATIC CONTROL  
 AUTOMATIC CONTROL VALVES  
 CHEMICAL REACTION CONTROL  
 COMBUSTION CONTROL  
 CONTROL  
 #CONTROLLERS  
 #COOLING  
 COOLING SYSTEMS  
 CRYOSTATS  
 ENGINE CONTROL  
 ENVIRONMENTAL CONTROL  
 ENVIRONMENTAL ENGINEERING  
 EXHAUST SYSTEMS  
 HEAT SHIELDING  
 #HEATING  
 #HEATING EQUIPMENT  
 HIGH TEMPERATURE TESTS  
 LOW TEMPERATURE TESTS  
 MANUAL CONTROL  
 REFRIGERATING  
 REFRIGERATING MACHINERY  
 REMOTE CONTROL  
 #TEMPERATURE  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE PROFILES  
 THERMAL CONTROL COATINGS  
 THERMAL CYCLING TESTS  
 THERMAL INSULATION  
 THERMOMETERS  
 THERMOREGULATION  
 THERMOSTATS  
 TRANSPIRATION  
 VENTILATION  
 TEMPERATURE DIFFERENCES  
 USE TEMPERATURE GRADIENTS

## TEMPERATURE DISTRIBUTION

1408 2003 2204 2502 3303  
 UP TEMPERATURE FIELDS  
 WALL TEMPERATURE DISTRIBUTION  
 BT #DISTRIBUTION (PROPERTY)  
 RT AIR CONDITIONING  
 #COOLING  
 COOLING SYSTEMS  
 ENVIRONMENTAL ENGINEERING  
 FIELD THEORY (PHYSICS)  
 #HEAT TREATMENT  
 #HEATING  
 ISOTHERMAL FLOW  
 ISOTHERMAL LAYERS  
 ISOTHERMS  
 REFRIGERATING  
 SATELLITE TEMPERATURE  
 #TEMPERATURE  
 TEMPERATURE CONTROL  
 TEMPERATURE GRADIENTS  
 TEMPERATURE INVERSIONS  
 TEMPERATURE PROFILES  
 THERMAL SHOCK  
 THERMAL STRESSES  
 VENTILATION  
 VERTICAL DISTRIBUTION  
 WATER TEMPERATURE  
 TEMPERATURE EFFECTS  
 0101 0404 0603 1002 1308 1704 2003 2311  
 UP HEAT EFFECTS  
 PHOTOTHERMOTROPISM  
 RICHARDSON-DUSHMAN EQUATION  
 THERMAL EFFECTS  
 THERMOTROPISM  
 RT ABLATION  
 CHEMICAL EFFECTS  
 EFFECTS  
 ETTINGSHAUSEN EFFECT  
 JET BLAST EFFECTS  
 MAGNETIC EFFECTS  
 NEARST-ETTINGSHAUSEN EFFECT  
 PELTIER EFFECTS  
 PRESSURE EFFECTS  
 RADIATION  
 REENTRY EFFECTS  
 SEEBECK EFFECT  
 THERMAL BUCKLING  
 THERMAL DEGRADATION  
 THERMAL DISSOCIATION  
 THERMAL RESISTANCE  
 THERMAL STRESSES  
 THERMOGRAVIMETRY  
 THERMOLUMINESCENCE  
 THERMOPLASTICITY  
 TEMPERATURE FIELDS  
 USE TEMPERATURE DISTRIBUTION  
 TEMPERATURE GRADIENTS  
 1408 2003 3303 3304  
 UP TEMPERATURE DIFFERENCES  
 BT THERMOCLINES  
 RT #GRADIENTS  
 RT ATMOSPHERIC TEMPERATURE  
 BATHYTHERMOGRAPHS  
 CHAPMAN-ENSKOG THEORY  
 CONVECTIVE HEAT TRANSFER  
 DIFFERENTIAL THERMAL ANALYSIS  
 ISOTHERMAL LAYERS  
 ISOTHERMS  
 POTENTIAL GRADIENTS  
 STRATIFICATION  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE PROFILES  
 TEMPERATURE INDICATORS  
 USE INDICATING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE INSTRUMENTS  
 USE TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE INVERSIONS  
 0408 1505 1704 2311 3203  
 BT CENTRIFUGING STRESS  
 RT #INVERSIONS  
 RT AIR POLLUTION  
 ATMOSPHERIC TEMPERATURE  
 BENDING  
 BIREFRINGENCE  
 BUCKLING  
 CRACKING (FRACTURING)  
 CRACKS  
 CREEP PROPERTIES  
 DEFLECTION  
 #DEFORMATION  
 DISPLACEMENT

## NASA THESAURUS (ALPHABETICAL LISTING)

DISTORTION  
 FAILURE  
 FATIGUE (MATERIALS)  
 INTERNAL PRESSURE  
 LAPSE RATE  
 #MECHANICAL PROPERTIES  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 PHOTOELASTIC ANALYSIS  
 PLASTIC DEFORMATION  
 #PRESSURE  
 PRESSURE EFFECTS  
 RESIDUAL STRESS  
 SAINT VENANT PRINCIPLE  
 SHEAR PROPERTIES  
 SHRINKAGE  
 STRAIN GAGES  
 STRAIN HARDENING  
 STRAIN RATE  
 STRESS ANALYSIS  
 STRESS RELAXATION  
 STRESS WAVES  
 #STRESSES  
 TEMPERATURE DISTRIBUTION  
 TENSILE DEFORMATION  
 TENSION  
 TEPHIGRAMS  
 TORSION  
 X RAY STRESS ANALYSIS  
 YIELD STRENGTH  
 TEMPERATURE MEASUREMENT  
 1408 2003  
 UP PYROMETRY  
 THERMOMETRY  
 RT BOLOMETERS  
 BRIGHTNESS TEMPERATURE  
 CRAYONS  
 GAS TEMPERATURE  
 HIGH TEMPERATURE  
 MEASUREMENT  
 NOISE TEMPERATURE  
 PYROMETERS  
 RADIATION PYROMETERS  
 RESISTANCE THERMOMETERS  
 SATELLITE TEMPERATURE  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE SCALES  
 THERMOCOUPLE PYROMETERS  
 THERMOCOUPLES  
 THERMOMETERS  
 WIND TUNNEL CALIBRATION  
 TEMPERATURE MEASURING INSTRUMENTS  
 1408  
 UP TEMPERATURE INDICATORS  
 TEMPERATURE INSTRUMENTS  
 TEMPERATURE PHOTOMETERS  
 TEMPERATURE TRANSDUCERS  
 THERMOGRAMS  
 THERMOGRAPHS  
 RT BATHYTHERMOGRAPHS  
 PNEUMATIC PROBES  
 PYROMETERS  
 RADIATION PYROMETERS  
 RESISTANCE THERMOMETERS  
 TEMPERATURE PROBES  
 THERMOCOUPLE PYROMETERS  
 THERMOMETERS  
 BT #MEASURING INSTRUMENTS  
 RT BOLOMETERS  
 BOMB CALORIMETERS  
 CALORIMETERS  
 DROP CALORIMETERS  
 FLAME CALORIMETERS  
 FLAME PROBES  
 #TEMPERATURE  
 TEMPERATURE CONTROL  
 TEMPERATURE MEASUREMENT  
 THERMISTORS  
 THERMOCOUPLES  
 THERMOPILES  
 THERMOSTATS  
 #TRANSDUCERS  
 TEMPERATURE PHOTOETHERS  
 USE PHOTOMETERS  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE PROBES  
 1408 1409 2003 3304  
 NT PNEUMATIC PROBES  
 BT #MEASURING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 RT THERMOCOUPLES

# NASA THESAURUS (ALPHABETICAL LISTING)

## TEMPERATURE PROFILES

1408 3303 3304

RT DIFFERENTIAL THERMAL ANALYSIS  
HEAT TRANSFER  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
TEMPERATURE GRADIENTS

## TEMPERATURE SCALES

1408

UF ABSOLUTE TEMPERATURE SCALES  
CELSIUS TEMPERATURE SCALE  
CENTIGRADE TEMPERATURE SCALE  
FAHRENHEIT TEMPERATURE SCALE  
INTERNATIONAL PRACTICAL TEMPERATURE  
KELVIN TEMPERATURE SCALE  
RANKINE TEMPERATURE SCALE

RT CALIBRATING  
SCALE  
STANDARDS  
TEMPERATURE MEASUREMENT  
THERMOMETERS

## TEMPERATURE SENSORS

1408 1413

UF TEMPERATURE TRANSDUCERS  
NT THERMISTORS

## TEMPERATURE TRANSDUCERS

USE TEMPERATURE MEASURING INSTRUMENTS  
TEMPERATURE SENSORS

## TEMPERING

1704 3203 3303

BT #HEAT TREATMENT  
RT ANNEALING  
DRAWING  
#HARDENING (MATERIALS)  
#METAL WORKING  
NORMALIZING (HEAT TREATMENT)  
STRESS RELIEVING  
STRETCHING

## TEMPLATES

1504

RT LOPTING  
MOLDS  
PATTERNS

## TENDENCIES

3408

RT INCLINATION

## TENDONS

0404

RT CONNECTIVE TISSUE  
FIBROBLASTS

## TENITE

1808

RT CELLULOSE  
MOLDING MATERIALS

## TENNESSEE

1305

BT UNITED STATES OF AMERICA

## TENSILE CREEP

2308 3203

BT CREEP PROPERTIES  
#MECHANICAL PROPERTIES  
RT PLASTIC DEFORMATION  
SHEAR CREEP  
TENSILE DEFORMATION

## TENSILE DEFORMATION

3203 3204

BT #DEFORMATION  
RT ELASTIC DEFORMATION  
ELONGATION  
PLASTIC DEFORMATION  
TEMPERATURE INVERSIONS  
TENSILE CREEP  
TENSILE STRESS

## TENSILE PROPERTIES

3408

BT #MECHANICAL PROPERTIES  
RT ELASTIC PROPERTIES  
HIGH STRENGTH ALLOYS

## TENSILE STRENGTH

1701 1704 2308 3203

BT #MECHANICAL PROPERTIES  
RT DUCTILITY  
ELASTIC PROPERTIES  
ELONGATION  
FIBER STRENGTH  
HIGH STRENGTH  
HYSTERESIS  
POISSON RATIO  
RESILIENCE  
SHEAR STRENGTH  
TENSILE STRESS  
TOUGHNESS

## TENSILE STRESS

2308 3203

BT #STRESSES  
RT AXIAL STRESS  
HIGH STRENGTH  
HOOPS  
TENSILE DEFORMATION  
TENSILE STRENGTH  
TENSION  
TRIAXIAL STRESSES

## TENSILE TESTERS

USE TENSILE TESTS

## TENSILE TESTS

1108 1504 3203

UF TENSILE TESTERS  
TENSION TESTERS  
RT DESTRUCTIVE TESTS  
FATIGUE TESTS  
LOAD TESTS  
STATIC TESTS

## TENSIONMETERS

1406 3203

BT #MEASURING INSTRUMENTS  
RT CABLE FORCE RECORDERS  
#MECHANICAL MEASUREMENT

## TENSION

0408 1505 1704 2311 3203

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT BLOOD PRESSURE  
INTERFACIAL TENSION  
PARTIAL PRESSURE  
STRETCHING  
TEMPERATURE INVERSIONS  
TENSILE STRESS

## TENSION TESTERS

USE TENSILE TESTS

## TENSIONMETERS

0905 2307 2402 3203

BT #MEASURING INSTRUMENTS  
RT DEFORMETERS  
EXTENSOMETERS  
STRAIN GAGES  
STRESS MEASUREMENT  
WEIGHT INDICATORS

## TENSOR ANALYSIS

1902 2308 2311

BT DIFFERENTIAL GEOMETRY  
#GEOMETRY  
RT RELATIVITY  
SCALARS  
SCALERS  
TENSORS

## TENSOR FIELDS

USE TENSORS

## TENSORS

1902 2311

UF TENSOR FIELDS  
TRANSFORMATION TENSORS  
RT STRESS TENSORS  
BT #ALGEBRA  
RT FIELD THEORY (PHYSICS)  
JORDAN FORM  
SCALARS  
TENSOR ANALYSIS

## TEPHIGRAMS

1203 1408 2001 2003

BT DIAGRAMS  
RT ATMOSPHERIC TURBULENCE  
ENTROPY  
LAPSE RATE  
#TEMPERATURE  
TEMPERATURE INVERSIONS  
#THERMODYNAMIC PROPERTIES

## TERBIUM

0603 1703

NT TERBIUM ISOTOPES  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS

## TERBIUM ISOTOPES

0603 1703 2406

UF TERBIUM 155  
TERBIUM 161  
BT #CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RARE EARTH ELEMENTS  
TERBIUM

## TERBIUM 155

USE TERBIUM ISOTOPES

# TERPENES

## TERBIUM 161

USE TERBIUM ISOTOPES

## TEREPHTHALATE

1808 1810

BT POLYETHYLENE TEREPHTHALATE  
BT #ACIDS  
CARBOXYLIC ACIDS  
DICARBOXYLIC ACIDS

## TERMINAL BALLISTICS

2311 3401

UF PENETRATION BALLISTICS  
PROJECTILE PENETRATION  
TARGET PENETRATION  
BT BALLISTICS  
RT ENERGY TRANSFER  
FRAGMENTATION  
#MISSILES  
PENETRATION  
PROJECTILES  
TERMINAL VELOCITY

## TERMINAL FACILITIES

1102

RT FACILITIES  
TERMINALS  
#TRANSPORTATION  
TERMINAL GUIDANCE  
0802 2102 2103 3101  
BT #GUIDANCE (MOTION)  
RT COMMAND GUIDANCE  
DESCENT TRAJECTORIES  
GLIDE PATHS  
HOMING  
INERTIAL GUIDANCE  
MIDCOURSE GUIDANCE  
REENTRY  
REENTRY GUIDANCE  
REENTRY TRAJECTORIES  
#REENTRY VEHICLES  
RENDEZVOUS GUIDANCE  
SPACECRAFT GUIDANCE

## TERMINAL VELOCITY

2311

BT #RATES (PER TIME)  
VELOCITY  
RT GRAVITATION  
TERMINAL BALLISTICS

## TERMINALS

0202 0303 0404 0507 0904 1504 2311

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT CONNECTORS  
ELECTRIC TERMINALS  
JUMPERS  
OUTLETS  
TERMINAL FACILITIES

## TERMINATING

USE STOPPING

## TERMINATOR LINES

2306 3001

RT LINES  
LUNAR PHASES  
PHASES  
SUNRISE  
SUNSET

## TERMINOLOGY

0702 3405 3406

RT DICTIONARIES  
NOMENCLATURES  
WORDS (LANGUAGE)

## TERMS

3402 3405 3406 3408

RT INFORMATION THEORY  
TERNARY ALLOYS  
1701 1704  
BT #ALLOYS  
RT TERNARY SYSTEMS

## TERNARY SYSTEMS

0603 0802 1701 1902 2405 2601

RT #ALLOYS  
#BINARY SYSTEMS (MATERIALS)  
SOLID SOLUTIONS  
SYSTEMS  
TERNARY ALLOYS  
TERNARY SYSTEMS (DIGITAL)  
USE DIGITAL SYSTEMS

## TERPENES

1808

BT AZULENE  
CAMPHOR  
MECANHYLAMINE  
MENTHOL

## TERPHEHYLS

TURPENTINE  
 RT ALKENES  
 TERPHEHYLS  
 1808 2403  
 BT PHENYLS  
 TERBRADYDYNAMICS  
 1308  
 RT DYNAMICS  
 EARTH SURFACE  
 PROJECTILES  
 TERRAIN  
 1305 1306  
 UP LANDSCAPE  
 MICROTOPOGRAPHY  
 BT TOPOGRAPHY  
 RT GEOMORPHOLOGY  
 LANDMARKS  
 TERRAIN ANALYSIS  
 1303 1304 1305  
 UP AIRBORNE TERRAIN ANALYSIS  
 SATAN (SENSOR)  
 SENSOR-AIRBORNE TERRAIN ANALYSIS  
 ANALYZING  
 RT EARTH RESOURCES  
 GEOGRAPHIC APPLICATIONS PROGRAM  
 MAPPING  
 PHOTOGRAMMETRY  
 RECONNAISSANCE  
 SOIL MAPPING  
 TERRAIN FOLLOWING AIRCRAFT  
 0201 0207 2103  
 RT TSP-2 AIRCRAFT  
 RT AIRCRAFT  
 ATTACK AIRCRAFT  
 #JET AIRCRAFT  
 LIGHT AIRCRAFT  
 MILITARY AIRCRAFT  
 OBSERVATION AIRCRAFT  
 SH-34 HELICOPTER  
 SUBSONIC AIRCRAFT  
 UTILITY AIRCRAFT  
 TERRESTRIAL DUST BELT  
 1301 1302 2003  
 BT #DUST  
 RT BELTS  
 COSMIC DUST  
 GEGENSCHNEIN  
 METEOROID DUST CLOUDS  
 MICROMETEOROIDES  
 ZODIACAL DUST  
 TERRESTRIAL MAGNETISM  
 USE GEOMAGNETISM  
 TERRESTRIAL RADIATION  
 1306 2402  
 (EXCLUDES ATMOSPHERIC RADIATION AND  
 REFLECTED VISIBLE LIGHT)  
 UP EARTH RADIATION  
 BT #ELECTROMAGNETIC RADIATION  
 RT #ATMOSPHERIC RADIATION  
 EARTH (PLANET)  
 EARTH ALBEDO  
 #EXTRATERRESTRIAL RADIATION  
 FAR INFRARED RADIATION  
 GREENHOUSE EFFECT  
 INFRARED RADIATION  
 NEAR INFRARED RADIATION  
 PLANETARY RADIATION  
 RADIATION  
 TROPOSPHERIC RADIATION  
 TERRIER MISSILE  
 3101 3401  
 BT ANTIAIRCRAFT MISSILES  
 #MISSILES  
 SURFACE TO AIR MISSILES  
 BUMBLEBEE PROJECT  
 MULTISTAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
 TERSEAL HARMONICS  
 1307 1904 2301 2312 3006  
 BT #ANALYSIS (MATHEMATICS)  
 FUNCTIONAL ANALYSIS  
 HARMONIC ANALYSIS  
 HARMONICS  
 RT SATELLITE PERTURBATION  
 TEST BEDS  
 USE TEST EQUIPMENT  
 TEST CHAMBERS  
 0504 0507 1106 1107 1108  
 UP ENVIRONMENTAL CHAMBERS  
 RT ANECHOIC CHAMBERS  
 HYPERBARIC CHAMBERS  
 PRESSURE CHAMBERS

VACUUM CHAMBERS  
 BT #COMPARTMENTS  
 RT CAPSULES  
 CHAMBERS  
 ENVIRONMENT MODELS  
 ENVIRONMENT SIMULATORS  
 ENVIRONMENTAL CONTROL  
 ENVIRONMENTAL LABORATORIES  
 #ENVIRONMENTAL TESTS  
 TEST EQUIPMENT  
 #TEST FACILITIES  
 THERMAL VACUUM TESTS  
 WIND TUNNELS  
 TEST EQUIPMENT  
 1106 1108 1110 1504 3404  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP CHECKOUT EQUIPMENT  
 TEST BEDS  
 TESTERS  
 TESTING MACHINES  
 RT ANALYZERS  
 ASTRONICS  
 AUTOMATIC TEST EQUIPMENT  
 AVIONICS  
 CEFOAM CHECKOUT EQUIPMENT  
 CENTRIFUGES  
 CHECKOUT  
 DYNAMOMETERS  
 ELECTRONIC EQUIPMENT TESTS  
 FATIGUE TESTING MACHINES  
 FREE FLIGHT TEST APPARATUS  
 FREQUENCY ANALYZERS  
 GROUND SUPPORT EQUIPMENT  
 HYPERSONIC TEST APPARATUS  
 IMPACT TESTING MACHINES  
 LOAD TESTING MACHINES  
 #MEASURING INSTRUMENTS  
 MONOSCOPIES  
 #ONBOARD EQUIPMENT  
 ROCKET PROPELLED SLEDS  
 SAMPLERS  
 #SIMULATORS  
 SUPERSONIC TEST APPARATUS  
 TEST CHAMBERS  
 #TEST FACILITIES  
 TEST STANDS  
 WIND TUNNEL MODELS  
 WIND TUNNELS  
 #TEST FACILITIES  
 1108 1110  
 NT ANECHOIC CHAMBERS  
 BALLISTIC RANGES  
 BLOWDOWN WIND TUNNELS  
 CASCADE WIND TUNNELS  
 COMBUSTION WIND TUNNELS  
 ENGINE TESTING LABORATORIES  
 ENVIRONMENTAL LABORATORIES  
 HOTSHOT WIND TUNNELS  
 HYPERVELOCITY WIND TUNNELS  
 LOW DENSITY WIND TUNNELS  
 LOW SPEED WIND TUNNELS  
 MISSILE RANGES  
 PLASMA JET WIND TUNNELS  
 RECTANGULAR WIND TUNNELS  
 ROCKET TEST FACILITIES  
 SHOCK TUNNELS  
 SLOTTED WIND TUNNELS  
 SUBSONIC WIND TUNNELS  
 SUPERSONIC WIND TUNNELS  
 TEST RANGES  
 TEST STANDS  
 TRANSIENT REACTOR TEST FACILITY  
 TRANSONIC WIND TUNNELS  
 WIND TUNNELS  
 RT FACILITIES  
 FLIGHT SIMULATORS  
 #LABORATORIES  
 #MODELS  
 RESEARCH FACILITIES  
 SHOCK TUBES  
 #SIMULATORS  
 SOLAR SIMULATORS  
 SPACECRAFT CABIN SIMULATORS  
 TEST CHAMBERS  
 TEST EQUIPMENT  
 TESTS  
 TEST FIRING  
 1108 3009 3301  
 NT STATIC FIRING  
 BT #FIRING (IGNITING)

## NASA THESAURUS (ALPHABETICAL LISTING)

RT ENGINE TESTS  
 FUEL TESTS  
 #GROUND TESTS  
 MISSILE TESTS  
 PREFIRING TESTS  
 PRELAUNCH TESTS  
 ROCKET FIRING  
 ROCKET TEST FACILITIES  
 STATIC TESTS  
 TESTS  
 TEST METHODS  
 USE TESTS  
 TEST PILOTS  
 0201 0502 1108 3401  
 BT AIRCRAFT PILOTS  
 FLYING PERSONNEL  
 OPERATORS (PERSONNEL)  
 #PERSONNEL  
 PILOTS (PERSONNEL)  
 RT PILOTS  
 TEST PROGRAMS  
 USE TESTS  
 TEST RANGES  
 1108  
 NT BALLISTIC RANGES  
 MISSILE RANGES  
 BT #RANGES (FACILITIES)  
 #TEST FACILITIES  
 RT DOWNRANGE  
 DOWNRANGE MEASUREMENT  
 RANGE SAFETY  
 ROCKET TEST FACILITIES  
 TEST STANDS  
 1106 1108 1504  
 BT #TEST FACILITIES  
 RT ENGINE TESTS  
 FLAME DEFLECTORS  
 PREFIRING TESTS  
 PRELAUNCH TESTS  
 ROCKET TEST FACILITIES  
 TEST EQUIPMENT  
 TEST VEHICLES  
 0201 1108 3110  
 NT FLIGHT TEST VEHICLES  
 RT AIRCRAFT  
 ALTITUDE TESTS  
 BALLISTIC VEHICLES  
 CAPSULES  
 HIGH ALTITUDE TESTS  
 #HYPERSONIC VEHICLES  
 #LAUNCH VEHICLES  
 MISSILE TESTS  
 #MISSILES  
 #REENTRY VEHICLES  
 RESEARCH AIRCRAFT  
 #ROCKET VEHICLES  
 SPACECRAFT  
 TESTS  
 TOWED BODIES  
 VEHICLES  
 TESTERS  
 USE TEST EQUIPMENT  
 TESTS  
 0404 0405 0408  
 BT #ANATOMY  
 GENITOURINARY SYSTEM  
 GLANDS (ANATOMY)  
 ORGANS  
 REPRODUCTIVE SYSTEMS  
 SEX GLANDS  
 #VISCERA  
 TESTING  
 USE TESTS  
 TESTING MACHINES  
 USE TEST EQUIPMENT  
 TESTING TIME  
 1108 1406  
 BT #TIME  
 RT BURNING TIME  
 ENGINE TESTS  
 FATIGUE TESTS  
 FLIGHT TIME  
 TESTS  
 WINDOWS (INTERVALS)  
 TESTS  
 1108 1505 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP FUNCTION TESTS  
 PRETESTS  
 TEST METHODS

# NASA THESAURUS (ALPHABETICAL LISTING)

TEST PROGRAMS  
 TESTING  
 HT SALT SPRAY TESTS  
 STROKING TESTS  
 THERMAL VACUUM TESTS  
 HT ACCELERATED LIFE TESTS  
 ACCEPTABILITY  
 ACCURACY  
 ADHESION TESTS  
 ALTITUDE TESTS  
 #CAPTIVE TESTS  
 CHECKOUT  
 CHEMICAL ANALYSIS  
 #CHEMICAL TESTS  
 COMPRESSION TESTS  
 CONFIDENCE LIMITS  
 DESTRUCTIVE TESTS  
 DROP TESTS  
 #EDUCATION  
 ELECTRIC EQUIPMENT TESTS  
 ELECTRONIC EQUIPMENT TESTS  
 EMPLOYMENT  
 ENGINE TESTS  
 #ENVIRONMENTAL TESTS  
 ERRORS  
 EVALUATION  
 EXAMINATION  
 EXTRAPOLATION  
 FATIGUE TESTS  
 FLIGHT TESTS  
 FOEL TESTS  
 FULL SCALE TESTS  
 #GROUND TESTS  
 HARDNESS TESTS  
 HIGH ALTITUDE TESTS  
 IMPACT TESTS  
 #LABORATORIES  
 LOAD TESTS  
 LUBRICANT TESTS  
 MEDIAN (STATISTICS)  
 MISSILE TESTS  
 #NONDESTRUCTIVE TESTS  
 NOTCH TESTS  
 PATCH TESTS  
 PERFORMANCE TESTS  
 PERSONALITY TESTS  
 PHYSIOLOGICAL TESTS  
 PREFLIGHT ANALYSIS  
 PROPELLANT TESTS  
 PROVING  
 PSYCHOLOGICAL TESTS  
 QUALIFICATIONS  
 QUALITY  
 QUALITY CONTROL  
 RAILROAD HUMMING TESTS  
 REACTOR STARTUP TESTS  
 RECORDS  
 RELIABILITY  
 RESONANCE TESTING  
 SALT SPRAY TESTS  
 SAMPLING  
 #SELECTION  
 SHOCK TESTS  
 SPIN TESTS  
 STABILITY TESTS  
 STATIC TESTS  
 STATISTICAL TESTS  
 TASKS  
 #TEST FACILITIES  
 TEST FIRING  
 TEST VEHICLES  
 TESTING TIME  
 THERMAL CYCLING TESTS  
 ULTRASONIC TESTS  
 #VIBRATION TESTS  
 WEAR TESTS  
 WELD TESTS  
 WING FLOW METHOD TESTS  
 X RAY INSPECTION  
 TETHERED BALLOONS  
 0205  
 UP KITE BALLOONS  
 BT BALLOONS  
 #EXPANDABLE STRUCTURES  
 INFLATABLE STRUCTURES  
 RT METEOROLOGICAL BALLOONS  
 TETHERING  
 3009 3104 3109  
 RT ORBITAL RENDEZVOUS  
 TETHERLINES  
 TETHERLINES  
 3009 3104 3109

RT ANCHORS (FASTENERS)  
 CABLES  
 LINES  
 TETHERING  
 UMBILICAL CONNECTORS  
 TETRABUTYLS  
 0603 1808  
 BT #ALIPHATIC COMPOUNDS  
 TETRACHLORIDES  
 1808  
 BT CHLORIDES  
 CHLORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 TETRACHLOROETHANE  
 USE CARBON TETRACHLORIDE  
 TETRACYCLINES  
 0603 1808  
 BT ANTIBIOTICS  
 #DRUGS  
 #HETEROCYCLIC COMPOUNDS  
 #STEROIDS  
 TETRAD THEORY  
 0404 0406  
 RT CHROMOSOMES  
 MIOSIS  
 SPORES  
 TETRAETHYL ORTHOCARBONATES  
 0603 1808  
 BT #CARBON COMPOUNDS  
 CARBONATES  
 TETRAFLUOROHYDRAZINE  
 1808  
 BT #ALIPHATIC COMPOUNDS  
 #AMINES  
 #FLUORINE COMPOUNDS  
 HYDRAZINES  
 TETRAGONS  
 1902 2601 3203  
 UP QUADRANGLES  
 NT PARALLELOGRAMS  
 RECTANGLES  
 SQUARES (MATHEMATICS)  
 TRAPEZOIDS  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYGONS  
 TETRAHEDRONS  
 1902 3203  
 BT EUCLIDEAN GEOMETRY  
 #GEOMETRY  
 POLYHEDRONS  
 RT TRIANGLES  
 TETRANITROTETRAZACYCLOCTANE  
 USE HMX  
 TETRAPHENYLS  
 1808  
 RT POLYPHENYLS  
 TETRAZOLES  
 1808  
 BT #HETEROCYCLIC COMPOUNDS  
 TETRODES  
 0903 0905 1002  
 RT #ELECTRON TUBES  
 PENTODES  
 SEMICONDUCTOR DEVICES  
 TRANSISTORS  
 TRIODES  
 TETRYL  
 0603 1808  
 BT #AMINES  
 EXPLOSIVES  
 NITRO COMPOUNDS  
 #NITROGEN COMPOUNDS  
 #PROPELLANTS  
 TEXAS  
 1305  
 BT UNITED STATES OF AMERICA  
 TEXTBOOKS  
 0502 3405  
 BT #DOCUMENTS  
 RT #EDUCATION  
 HANDBOOKS  
 #KNOWLEDGE  
 #LEARNING  
 LIBRARIES  
 MANUALS  
 SUBJECTS  
 TEXTILES  
 1811  
 RT COTTON FIBERS  
 LINEN

# THEODORSEN TRANSFORMATION

RAYON  
 RT #CLOTHING  
 FABRICS  
 #FIBERS  
 TEXTS  
 0803 3405  
 BT #DOCUMENTS  
 RT FORMAL  
 RECORDS  
 TEXTURES  
 3403 3408  
 RT CURL (MATERIALS)  
 FINENESS  
 #MECHANICAL PROPERTIES  
 POROSITY  
 #SURFACE PROPERTIES  
 TF-30 ENGINE  
 0202 2801 2805  
 BT AIRCRAFT ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 TURBOFAN ENGINES  
 TURBOJET ENGINES  
 TF-106 ENGINE  
 0202 2801 2805  
 BT AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 TURBOFAN ENGINES  
 TURBOJET ENGINES  
 RT VERTICAL TAKEOFF AIRCRAFT  
 TFX AIRCRAFT  
 USE F-111 AIRCRAFT  
 TH-55 HELICOPTER  
 0206 0207  
 BT HELICOPTERS  
 HUGHES AIRCRAFT  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 THAILAND  
 1305  
 RT ASIA  
 NATIONS  
 THALAMUS  
 0405 0408  
 BT CENTRAL NERVOUS SYSTEM  
 #NERVOUS SYSTEM  
 RT BRAIN  
 THALLIUM  
 0603 1703  
 NT THALLIUM COMPOUNDS  
 THALLIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 THALLIUM COMPOUNDS  
 0603 1704 1804  
 BT THALLIUM  
 RT COMPOUNDS  
 METAL COMPOUNDS  
 THALLIUM ISOTOPES  
 0603 1703  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 THALLIUM  
 THAWING  
 USE MELTING  
 THEMIS PROJECT  
 1902 1903  
 BT PROJECTS  
 THEODOLITES  
 1406 1412 1901 2104 3001 3002  
 NT CINETHEODOLITES  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 TRANSITS  
 RT SEXTANTS  
 THEODORSEN TRANSFORMATION  
 0101 0102 1202  
 RT #AIRFOIL PROFILES  
 COMPLEX VARIABLES  
 CONFORMAL MAPPING  
 COORDINATE TRANSFORMATIONS  
 JOUKOWSKI TRANSFORMATION  
 PRESSURE DISTRIBUTION

# THEOREM PROVING

## THEOREM PROVING

1902

BT #LEARNING

PROBLEM SOLVING

PROVING

RT ARTIFICIAL INTELLIGENCE

COMPUTER PROGRAMMING

#THEOREMS

## #THEOREMS

1902 2311

UP LEMMAS

NT ADDITION THEOREM

BAYES THEOREM

BERNOULLI THEOREM

BINOMIAL THEOREM

CASTIGLIANO VARIATIONAL THEOREM

EXISTENCE THEOREMS

FLOQUET THEOREM

FOULIS THEOREM

GAUSS-MARKOV THEOREM

HELLMANN-PEYNNAN THEOREM

KAKUTANI THEOREM

LAGRANGE SIMILARITY HYPOTHESIS

LEBESGUE THEOREM

LIOUVILLE THEOREM

MICHELL THEOREM

PONERANCHUK THEOREM

POYNING THEOREM

RECIPROCAL THEOREMS

RICHARDS THEOREM

RIESZ THEOREM

SCHAUER FIXPOINT THEOREM

SIMILARITY THEOREM

STOKES THEOREM (VECTOR CALCULUS)

UNIQUENESS THEOREM

RT HYPOTHESES

#MATHEMATICAL LOGIC

MATHEMATICS

TAYLOR SERIES

THEOREM PROVING

## #THEORETICAL PHYSICS

2311

RT BOHR THEORY

NEWTON THEORY

QUANTUM THEORY

RT ASTROPHYSICS

#ELECTROPHYSICS

GEOPHYSICS

#NUCLEAR PHYSICS

PHYSICS

PLASMA PHYSICS

RADIO PHYSICS

SOLID STATE PHYSICS

## THEORIES

1902 3406

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT ABRISKOSOV THEORY

ASSUMPTIONS

ATOMIC THEORY

BENDING THEORY

BESSEL-BREDICHIN THEORY

BOGOLIUBOV THEORY

BOHR THEORY

BORN-INFELD THEORY

#COMMUNICATION THEORY

CONTROL THEORY

CROCCO-LEE THEORY

DEBYE-HUCKEL THEORY

DECISION THEORY

DIFFUSION THEORY

DYNAMO THEORY

DYSON THEORY

EYRING THEORY

FIELD MODE THEORY

FIELD THEORY (ALGEBRA)

FIELD THEORY (PHYSICS)

FINITE DIFFERENCE THEORY

FLOW THEORY

FLUCTUATION THEORY

FOSTER THEORY

GAME THEORY

GESTALT THEORY

GLAUBER THEORY

GOAL THEORY

GRAVITATION THEORY

GRIFFITH CRACK

GROUP THEORY

HANSEN LUNAR THEORY

HEISENBERG THEORY

HILL LUNAR THEORY

HOMOTOPY THEORY

HUECKEL THEORY

HYPOTHESES

INFORMATION THEORY

JEANS THEORY

#KINETIC THEORY

KOLMOGOROFF THEORY

MALKUS THEORY

MICHAELIS THEORY

MOLECULAR THEORY

MOMENTUM THEORY

NEEMAN-GELMAN THEORY

NEWTON THEORY

NONADIABATIC THEORY

#NUMBER THEORY

OPIK THEORY

ORTHOGONAL MULTIPLEXING THEORY

PARTICLE THEORY

PERTURBATION THEORY

PHYSICAL OPTICS

POPULATION THEORY

POTENTIAL THEORY

PROBABILITY THEORY

QUANTUM THEORY

QUEUEING THEORY

REISSNER THEORY

S MATRIX THEORY

SET THEORY

SHELL THEORY

SPECTRAL THEORY

STURM-LIOUVILLE THEORY

SWITCHING THEORY

TRANSPORT THEORY

## THERAPY

0405 0408

NT CHEMOTHERAPY

MASSAGING

PSYCHOTHERAPY

RADIATION THERAPY

RT CURES

#DISEASES

HEALING

#MEDICAL EQUIPMENT

PATIENTS

RESPIRATORS

SKIN GRAFTS

THERMAL ABSORPTION

3303 3304

RT POLAR CAP ABSORPTION

BT #ENERGY ABSORPTION

RT ABLATION

ABSORPTION

ATMOSPHERIC ATTENUATION

CHARMING

GRAY GAS

HEAT SINKS

PYROLYSIS

THERMAL ACCOMMODATION COEFFICIENTS

USE ACCOMMODATION COEFFICIENT

THERMAL AGITATION

USE THERMAL ENERGY

THERMAL BATTERIES

0302 3303

BT DIRECT POWER GENERATORS

ELECTRIC BATTERIES

#ELECTRIC GENERATORS

#ELECTROCHEMICAL CELLS

PRIMARY BATTERIES

RT

ALKALINE BATTERIES

DRY CELLS

THERMAL BOUNDARY LAYER

0101 1202 1203 3304

BT BOUNDARY LAYERS

RT HYPERSONIC BOUNDARY LAYER

LAMINAR BOUNDARY LAYER

TURBULENT BOUNDARY LAYER

THERMAL BUCKLING

3203 3204 3303

BT BUCKLING

#EXPANSION

PRANDTL-MEYER EXPANSION

THERMAL EXPANSION

#THERMODYNAMIC PROPERTIES

RT

TEMPERATURE EFFECTS

THERMAL STRESSES

THERMAL COMFORT

0504 0507 0508 3303

RT THERMAL ENVIRONMENTS

THERMAL CONDUCTIVITY

2302 3303 3304 3408

BT #THERMODYNAMIC PROPERTIES

THERMOPHYSICAL PROPERTIES

# NASA THESAURUS (ALPHABETICAL LISTING)

#TRANSPORT PROPERTIES

RT AIR CONDUCTIVITY

ATMOSPHERIC CONDUCTIVITY

CONDUCTIVE HEAT TRANSFER

CONDUCTIVITY

FOURIER LAW

HOT-WIRE FLOWMETERS

LEWIS NUMBERS

SPECIFIC HEAT

#TEMPERATURE

THERMAL CONDUCTIVITY GAGES

THERMAL CONDUCTORS

THERMAL DIFFUSION

THERMAL STRESSES

THERMAL CONDUCTIVITY GAGES

1406 1408 2302 3303

(GAGES FOR MEASURING THERMAL  
CONDUCTIVITY--EXCLUDES GAGES USING  
THERMAL CONDUCTIVITY TO MEASURE OTHER  
PROPERTIES OR VARIABLES)

BT #MEASURING INSTRUMENTS

RT THERMAL CONDUCTIVITY

THERMAL CONDUCTORS

0603 1704 2302 3303 3304

BT #CONDUCTORS

RT CONDUCTION

CONDUCTIVE HEAT TRANSFER

ELECTRIC CONDUCTORS

THERMAL CONDUCTIVITY

THERMAL CONTROL COATINGS

0604 1802 3303 3305

BT #COATINGS

RT ABLATIVE MATERIALS

HEAT SHIELDING

REENTRY SHIELDING

TEMPERATURE CONTROL

THERMAL INSULATION

THERMAL PROTECTION

THERMAL CONVECTION

USE FREE CONVECTION

THERMAL CURRENTS

USE CONVECTIVE FLOW

THERMAL CYCLING TESTS

3303 3304

RT CLOSED CYCLES

#COOLING

FATIGUE TESTS

#HEATING

TEMPERATURE

TEMPERATURE CONTROL

TESTS

THERMAL SHOCK

THERMAL VACUUM TESTS

#THERMODYNAMIC PROPERTIES

THERMAL DECOMPOSITION

USE PYROLYSIS

THERMAL DEGRADATION

0602 3303

RT PYROLYSIS

TEMPERATURE EFFECTS

THERMAL RESISTANCE

THERMAL DIFFUSION

0602 3303 3304

BT #DIFFUSION

#THERMODYNAMIC PROPERTIES

THERMOPHYSICAL PROPERTIES

RT CHAPMAN-ENSKOG THEORY

CONDUCTION

CONVECTIVE FLOW

ELECTRON DIFFUSION

GAS HEATING

GASEOUS DIFFUSION

HEAT TRANSFER

KIRKENDALL EFFECT

PECLET NUMBER

SEPARATION

SORET COEFFICIENT

SURFACE DIFFUSION

THERMAL CONDUCTIVITY

THERMOCHEMISTRY

VISCOSITY

THERMAL DIFFUSIVITY

0101 1202 2311 3303

BT #THERMODYNAMIC PROPERTIES

THERMOPHYSICAL PROPERTIES

#TRANSPORT PROPERTIES

RT VISCOSITY

THERMAL DISSOCIATION

0602 0603 3303

BT #CHEMICAL REACTIONS

DISSOCIATION

RT DECOMPOSITION

# NASA THESAURUS (ALPHABETICAL LISTING)

DEGRADATION  
 GAS DISSOCIATION  
 HEAT OF DISSOCIATION  
 #IONIZATION  
 #PLASMAS (PHYSICS)  
 TEMPERATURE EFFECTS  
 THERMAL EFFECTS  
 USE TEMPERATURE EFFECTS  
 THERMAL EFFICIENCY  
 USE THERMODYNAMIC EFFICIENCY  
 THERMAL EMISSION  
 1002 3303  
 UF THERMAL RADIO EMISSION  
 BT THERMIONIC EMISSION  
 BT #DECAY  
 EMISSION  
 RT ELECTRON EMISSION  
 EMISSION  
 INCANDESCENCE  
 THERMAL ENERGY  
 3303 3304  
 UF THERMAL AGITATION  
 RT ENERGY  
 FREE ENERGY  
 HEAT  
 HEAT OF SOLUTION  
 INTERNAL ENERGY  
 KINETIC ENERGY  
 LATTICE VIBRATIONS  
 THERMAL ENERGY STORAGE  
 USE HEAT STORAGE  
 THERMAL ENVIRONMENTS  
 0504 0507 0508 3008 3303  
 BT #ENVIRONMENTS  
 RT ADIABATIC CONDITIONS  
 AEROSPACE ENVIRONMENTS  
 HIGH TEMPERATURE ENVIRONMENTS  
 LIFE SUPPORT SYSTEMS  
 LOW TEMPERATURE ENVIRONMENTS  
 LUNAR ENVIRONMENT  
 PLANETARY ENVIRONMENTS  
 SATELLITE TEMPERATURE  
 SPACECRAFT ENVIRONMENTS  
 THERMAL COMFORT  
 THERMAL EXPANSION  
 1203 3203 3303  
 BT THERMAL BUCKLING  
 BT #THERMODYNAMIC PROPERTIES  
 RT BOUSSINESQ APPROXIMATION  
 DILATOMETRY  
 #EXPANSION  
 EXTENSOMETERS  
 GRUNEISEN CONSTANT  
 HEAT TRANSFER  
 HIGH TEMPERATURE TESTS  
 LOW TEMPERATURE TESTS  
 MEL TEMPERATURE  
 PHYSICAL PROPERTIES  
 #TEMPERATURE  
 THERMOPHYSICAL PROPERTIES  
 WARPAGE  
 THERMAL FATIGUE  
 1701 1704 3204 3303  
 BT FATIGUE (MATERIALS)  
 RT HIGH TEMPERATURE ENVIRONMENTS  
 METAL FATIGUE  
 THERMAL STRESSES  
 THERMAL INSTABILITY  
 0603 1202 3203 3303  
 BT #THERMODYNAMIC PROPERTIES  
 RT CLEAR AIR TURBULENCE  
 COMBUSTION STABILITY  
 MAGNETOHYDRODYNAMIC STABILITY  
 PYROLYSIS  
 SPUTTERING  
 STELLARATORS  
 THERMAL INSULATION  
 0507 2303 3303 3305  
 BT INSULATION  
 RT AIR CONDITIONING  
 AMBERLITE (TRADEMARK)  
 ASBESTOS  
 CORK (MATERIALS)  
 CRYOGENIC FLUID STORAGE  
 HEAT  
 HEAT SHIELDING  
 HEAT SINKS  
 HEAT TRANSFER  
 HEAT TRANSMISSION  
 #HEATING EQUIPMENT  
 REENTRY SHIELDING  
 REFRACTORIES

TEMPERATURE CONTROL  
 THERMAL CONTROL COATINGS  
 THERMAL PROTECTION  
 THERMAL NEUTRONS  
 2203 2403 2405  
 UF SLOW NEUTRONS  
 BT ELEMENTARY PARTICLES  
 FERMIONS  
 NEUTRAL PARTICLES  
 NEUTRONS  
 NUCLEAR RADIATION  
 #PARTICLES  
 RT FAST NEUTRONS  
 #NUCLEAR REACTORS  
 THERMALIZATION (ENERGY ABSORPTION)  
 THERMAL NOISE  
 0704 2402 3303  
 BT BLACKOUT (PROPAGATION)  
 #ELASTIC WAVES  
 #ELECTROMAGNETIC INTERFERENCE  
 NOISE (SOUND)  
 RADIO FREQUENCY INTERFERENCE  
 SOUND WAVES  
 WHITE NOISE  
 RT NOISE TEMPERATURE  
 SHOT NOISE  
 THERMAL PLASMAS  
 2502 3303  
 BT #PLASMAS (PHYSICS)  
 RT ELECTRON PLASMA  
 HIGH TEMPERATURE PLASMAS  
 #PARTICLES  
 #PLASMA GENERATORS  
 PLASMA TEMPERATURE  
 THERMAL POLLUTION  
 0404 0408 0411 0505 1306 2202 3303 3304  
 BT #POLLUTION  
 RT BIOLOGICAL EFFECTS  
 COASTAL ECOLOGY  
 ENVIRONMENT POLLUTION  
 #ENVIRONMENTS  
 HEAT TRANSFER  
 LAKES  
 LIQUID COOLING  
 MARINE BIOLOGY  
 #NUCLEAR REACTORS  
 OCEANS  
 PLANKTON  
 SEAS  
 WATER POLLUTION  
 WATER TEMPERATURE  
 THERMAL POWER  
 USE TURBOGENERATORS  
 THERMAL PROPERTIES  
 USE #THERMODYNAMIC PROPERTIES  
 THERMAL PROTECTION  
 0507 0508 3303 3305  
 BT #PROTECTION  
 RT ABLATIVE MATERIALS  
 HEAT SHIELDING  
 RADIATION PROTECTION  
 REENTRY SHIELDING  
 THERMAL CONTROL COATINGS  
 THERMAL INSULATION  
 THERMAL RADIATION  
 2402 3303 3304  
 (EMITTED AS THE RESULT OF THERMAL  
 EXCITATION OF MOLECULES)  
 BT PHOTON BEAMS  
 BT #ELECTROMAGNETIC RADIATION  
 RT BLACK BODY RADIATION  
 CONCENTRATORS  
 GREENHOUSE EFFECT  
 HEAT  
 INFRARED RADIATION  
 LIGHT (VISIBLE RADIATION)  
 NEAR INFRARED RADIATION  
 HONGRAY GAS  
 PLANCKS CONSTANT  
 PLANETARY RADIATION  
 RADIATION  
 RADIO WAVES  
 SKY RADIATION  
 SOLAR RADIATION  
 SUNLIGHT  
 THERMAL SHOCK  
 #THERMODYNAMIC PROPERTIES  
 ULTRAVIOLET RADIATION  
 THERMAL RADIO EMISSION  
 USE RADIO EMISSION  
 THERMAL EMISSION

# THERMIONICS

THERMAL REACTORS  
 2202 2204  
 BT #NUCLEAR REACTORS  
 RT REACTORS  
 THERMAL RESISTANCE  
 1704 1803 3304 3303  
 UF HEAT RESISTANCE  
 BT #MECHANICAL PROPERTIES  
 RT HIGH RESISTANCE  
 HIGH TEMPERATURE LUBRICANTS  
 HIGH TEMPERATURE TESTS  
 LOW RESISTANCE  
 OXIDATION  
 OXIDATION RESISTANCE  
 RESISTANCE  
 SPECIFIC HEAT  
 TEMPERATURE EFFECTS  
 THERMAL DEGRADATION  
 THERMAL STABILITY  
 #THERMODYNAMIC PROPERTIES  
 THERMAL SHIELDING  
 USE HEAT SHIELDING  
 THERMAL SHOCK  
 3203 3303  
 RT #COOLING  
 #HEATING  
 HIGH TEMPERATURE TESTS  
 SHOCK  
 SHOCK RESISTANCE  
 #TEMPERATURE  
 TEMPERATURE DISTRIBUTION  
 THERMAL CYCLING TESTS  
 THERMAL RADIATION  
 THERMAL STRESSES  
 #THERMODYNAMIC PROPERTIES  
 THERMAL SIMULATION  
 1107 1108 3104 3303  
 BT ENVIRONMENT SIMULATION  
 #SIMULATION  
 RT ALTITUDE SIMULATION  
 SOLAR SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 THERMAL STABILITY  
 3304  
 UF THERMOSTABILITY  
 BT #STABILITY  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT DIMENSIONAL STABILITY  
 HIGH TEMPERATURE TESTS  
 LOW TEMPERATURE TESTS  
 STORAGE STABILITY  
 SURFACE STABILITY  
 #TEMPERATURE  
 THERMAL RESISTANCE  
 THERMAL STRESSES  
 1701 1704 3203 3303 3304  
 (EXCLUDES BIOLOGICAL STRESSES)  
 BT #STRESSES  
 RT #COOLING  
 FATIGUE (MATERIALS)  
 #HEATING  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE EFFECTS  
 THERMAL BUCKLING  
 THERMAL CONDUCTIVITY  
 THERMAL FATIGUE  
 THERMAL SHOCK  
 THERMAL VACUUM TESTS  
 1106 1108 1203 1506  
 BT TESTS  
 RT ENVIRONMENTAL CHAMBERS  
 #ENVIRONMENTAL TESTS  
 HIGH ALTITUDE ENVIRONMENTS  
 TEST CHAMBERS  
 THERMAL CYCLING TESTS  
 VACUUM CHAMBERS  
 THERMALIZATION (ENERGY ABSORPTION)  
 2401 2403 2405 3303  
 RT NEUTRON THERMALIZATION  
 BT #ENERGY ABSORPTION  
 MODERATION (ENERGY ABSORPTION)  
 RT THERMAL NEUTRONS  
 THERMIONICS  
 0905 2310  
 BT CAMERA TUBES  
 #ELECTRON TUBES  
 IMAGE CONVERTERS  
 IMAGE TUBES  
 #OPTICAL EQUIPMENT  
 RETURN BEAM VIDICONS  
 VIDICONS

# **THERMIONIC CATHODES**

**THERMIONIC CATHODES**  
 0903 0905 2402 3303  
 BT CATHODES  
 #ELECTRODES  
 TUBE CATHODES  
 RT HOT CATHODES  
**THERMIONIC CONVERSION SYSTEMS**  
 USE THERMIONIC POWER GENERATION  
**THERMIONIC CONVERTERS**  
 0301 0903 0905 2402 3303  
 NT SNAP 13  
 BT DIRECT POWER GENERATORS  
 #ELECTRIC GENERATORS  
 RT CESIUM DIODES  
 CESIUM PLASMA  
 CONVERTERS  
 FUEL CELLS  
 ION PRODUCTION RATES  
 MAGNETOHYDRODYNAMIC GENERATORS  
 #PLASMA POWER SOURCES  
 RADIOISOTOPE BATTERIES  
 SNAP  
 SOLAR CELLS  
 THERMIONIC EMISSION  
 THERMIONIC EMITTERS  
 THERMIONIC POWER GENERATION  
 THERMOELECTRIC GENERATORS  
**THERMIONIC DIODES**  
 0903 0905 2402 3303  
 NT CESIUM DIODES  
 BT #DIODES  
 RT CHILD-LANGMUIR LAW  
 PERVEANCE  
 THERMIONIC EMISSION  
 THERMIONIC EMITTERS  
**THERMIONIC EMISSION**  
 2401 2402 2403 3303  
 UP RICHARDSON-DUSHMAN EQUATION  
 BT #DECAY  
 EMISSION  
 THERMAL EMISSION  
 RT ELECTRON EMISSION  
 ION EMISSION  
 THERMIONIC CONVERTERS  
 THERMIONIC DIODES  
 THERMIONIC EMITTERS  
 THERMOELECTRICITY  
 WORK FUNCTIONS  
**THERMIONIC EMITTERS**  
 0905 2304 3303 3304  
 BT EMITTERS  
 RT THERMIONIC CONVERTERS  
 THERMIONIC DIODES  
 THERMIONIC EMISSION  
**THERMIONIC POWER GENERATION**  
 0903 0905 1002 2402 2403 3303  
 UP THERMIONIC CONVERSION SYSTEMS  
 RT SNAP  
 SNAP 13  
 THERMIONIC CONVERTERS  
**THERMIONIC REACTORS**  
 USE ION ENGINES  
 NUCLEAR ROCKET ENGINES  
**THERMIONICS**  
 1002 2402 3303  
 RT ELECTRONICS  
**THERMISTORS**  
 0905 0906 2602 3303  
 BT #ATTENUATORS  
 #ELECTRONIC EQUIPMENT  
 RESISTORS  
 SEMICONDUCTOR DEVICES  
 SOLID STATE DEVICES  
 TEMPERATURE SENSORS  
 RT RADIOMETERS  
 TEMPERATURE MEASURING INSTRUMENTS  
 VARIATORS  
**THERMO-PHOTOVOLTAIC GENERATORS**  
 USE PHOTOELECTRIC GENERATORS  
 THERMOELECTRIC GENERATORS  
**THERMOAEROELASTICITY**  
 USE AEROELASTICITY  
 THERMOELASTICITY  
**THERMOBALANCES**  
 3303 3304  
 BT INDICATING INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 WEIGHT INDICATORS  
 RT THERMOGRAVIMETRY  
**THERMOCHEMICAL PROPERTIES**  
 0602 3301 3304  
 NT HEAT OF COMBUSTION

HEAT OF DISSOCIATION  
 HEAT OF FORMATION  
 HEAT OF VAPORIZATION  
 BT #CHEMICAL PROPERTIES  
 #THERMODYNAMIC PROPERTIES  
 RT HEAT BALANCE  
**THERMOCHEMISTRY**  
 0603 1701 1704 3304  
 NT AEROTHERMOCHEMISTRY  
 RT CHEMICAL ENGINEERING  
 #CHEMICAL REACTIONS  
 CHEMISTRY  
 COMBUSTION PHYSICS  
 ENTHALPY  
 ENTROPY  
 HEAT  
 HEAT BALANCE  
 HEAT OF DISSOCIATION  
 HEAT OF SOLUTION  
 #HEAT TREATMENT  
 PHYSICAL CHEMISTRY  
 PROPELLANT CHEMISTRY  
 PYROMETALLURGY  
 THERMAL DIFFUSION  
 #THERMODYNAMIC PROPERTIES  
 THERMODYNAMICS  
 THERMOGRAVIMETRY  
 THERMOPHYSICAL PROPERTIES  
**THERMOCHEMOTATIC MATERIALS**  
 0603 1704 1804  
 RT COLOR  
 COLORIMETRY  
 INORGANIC MATERIALS  
 MATERIALS  
 OPTICAL PROPERTIES  
 ORGANIC MATERIALS  
 SOLIDS  
**THERMOCLINES**  
 1310 3303 3304  
 BT #GRADIENTS  
 TEMPERATURE GRADIENTS  
 RT OCEANOGRAPHY  
 SEA WATER  
 SOUND TRANSMISSION  
 STRATIFICATION  
 SURFACE LAYERS  
 SURFACE TEMPERATURE  
 UNDERWATER ACOUSTICS  
**THERMOCOMPRESSION**  
 USE COMPRESSING  
 #HEATING  
**THERMOCOUPLE PYROMETERS**  
 1408 3303  
 BT #MEASURING INSTRUMENTS  
 PYROMETERS  
 TEMPERATURE MEASURING INSTRUMENTS  
 RT GALVANOMETERS  
 POTENTIOMETERS (INSTRUMENTS)  
 RADIATION PYROMETERS  
 RESISTANCE THERMOMETERS  
 TEMPERATURE MEASUREMENT  
 THERMOCOUPLES  
 THERMOELEMENT AMMETERS  
**THERMOCOUPLES**  
 0301 1701 1704 3305  
 NT THERMOPILES  
 RT CONSTANTAN  
 INDICATING INSTRUMENTS  
 HANGAMIN (TRADEMARK)  
 PELTIER EFFECTS  
 POTENTIOMETERS (INSTRUMENTS)  
 SEEBECK EFFECT  
 TEMPERATURE MEASUREMENT  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE PROBES  
 THERMOCOUPLE PYROMETERS  
 THERMOELECTRIC GENERATORS  
 THERMOELECTRICITY  
**THERMODYNAMIC COUPLING**  
 3303 3304  
 BT COUPLING  
 RT BCS THEORY  
 ELECTRON PHONON INTERACTIONS  
 SUPERCONDUCTORS  
**THERMODYNAMIC CYCLES**  
 2003 3301 3304  
 NT BRAYTON CYCLE  
 CARNOT CYCLE  
 OTTO CYCLE  
 RANKINE CYCLE  
 STIRLING CYCLE  
 BT #CYCLES

# **NASA THESAURUS (ALPHABETICAL LISTING)**

BT ADIABATIC CONDITIONS  
 CLOSED CYCLES  
 INTERNAL COMBUSTION ENGINES  
 STROKES  
**THERMODYNAMICS**  
**THERMODYNAMIC EFFICIENCY**  
 1504 3304  
 UP THERMAL EFFICIENCY  
 RT #EFFICIENCY  
 COMBUSTION EFFICIENCY  
 COMPRESSOR EFFICIENCY  
 #ENGINES  
 HEAT SOURCES  
 INTERNAL COMBUSTION ENGINES  
 NOZZLE EFFICIENCY  
 POWER EFFICIENCY  
 PROPULSION SYSTEM PERFORMANCE  
 PROPULSIVE EFFICIENCY  
 SPECIFIC IMPULSE  
**THERMODYNAMICS**  
**THERMODYNAMIC EQUILIBRIUM**  
 1905 2308 3304  
 RT ACID BASE EQUILIBRIUM  
 ADIABATIC CONDITIONS  
 CHEMICAL EQUILIBRIUM  
 EQUILIBRIUM  
 HEAT OF DISSOCIATION  
 ISENTROPIC PROCESSES  
 ISOCORIC PROCESSES  
 ISOENERGETIC PROCESSES  
 ISOTHERMAL PROCESSES  
 LIQUID-VAPOR EQUILIBRIUM  
 STATISTICAL MECHANICS  
**#THERMODYNAMIC PROPERTIES**  
 0603 1701 1704 3304  
 UP THERMAL PROPERTIES  
 NT CRITICAL POINT  
 CRITICAL PRESSURE  
 CRITICAL TEMPERATURE  
 EMISSIVITY  
 ENTHALPY  
 ENTROPY  
 FREE ENERGY  
 FUSIBILITY  
 GIBBS FREE ENERGY  
 HEAT OF COMBUSTION  
 HEAT OF FORMATION  
 HEAT OF SOLUTION  
 HEAT OF VAPORIZATION  
 MELTING POINTS  
 PYROELECTRICITY  
 SPECIFIC HEAT  
 SUPERCRITICAL PRESSURES  
 SURFACE ENERGY  
 THERMAL BUCKLING  
 THERMAL CONDUCTIVITY  
 THERMAL DIFFUSION  
 THERMAL DIFFUSIVITY  
 THERMAL EXPANSION  
 THERMAL INSTABILITY  
 THERMAL STABILITY  
 THERMOCHEMICAL PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 VAPOR PRESSURE  
 VOLATILITY  
 RT #CHEMICAL PROPERTIES  
 DIFFUSIVITY  
 EMITTANCE  
 EQUILIBRIUM  
 HEAT  
 HEAT BALANCE  
 HIGH TEMPERATURE TESTS  
 JOULE-THOMSON EFFECT  
 OPTICAL PROPERTIES  
 PHYSICAL PROPERTIES  
 PRANDTL NUMBER  
 PROPELLANT PROPERTIES  
 PROPERTIES  
 SEEBECK EFFECT  
 SOLUBILITY  
**#TEMPERATURE**  
 TEPHIGRAMS  
 THERMAL CYCLING TESTS  
 THERMAL RADIATION  
 THERMAL RESISTANCE  
 THERMAL SHOCK  
 THERMOCHEMISTRY  
 THERMODYNAMICS  
 THERMOLUMINESCENCE  
**THERMODYNAMICS**  
 3304  
 UP HEAT EQUATIONS

# NASA THESAURUS (ALPHABETICAL LISTING)

## THERMOPILES

THERMOMECHANICS  
 THERMOPHYSICS  
 RT AEROTHERMODYNAMICS  
 RT COMBUSTION PHYSICS  
 AERODYNAMICS  
 DYNAMICS  
 #ENGINES  
 ENTHALPY  
 ENTROPY  
 EQUATIONS  
 EQUATIONS OF STATE  
 EQUILIBRIUM  
 ERGODIC PROCESS  
 #FLUID MECHANICS  
 FREE ENERGY  
 GAS DYNAMICS  
 HEAT  
 HEAT OF SOLUTION  
 HEAT TRANSFER  
 INTERNAL ENERGY  
 IRREVERSIBLE PROCESSES  
 ISOTHERMS  
 JOULE-THOMSON EFFECT  
 KIRCHHOFF LAW OF RADIATION  
 MECHANICAL ENGINEERING  
 MOLECULAR RELAXATION  
 MOLLIER DIAGRAM  
 NONGRAY GAS  
 ONSAGER RELATIONSHIP  
 PATHS  
 PPAPF EQUATION  
 PHYSICAL CHEMISTRY  
 PLASMA PHYSICS  
 #PLASMAS (PHYSICS)  
 POLYTROPIC PROCESSES  
 RANKINE CYCLE  
 RAYLEIGH EQUATIONS  
 STEAM  
 THERMOCHEMISTRY  
 THERMODYNAMIC CYCLES  
 THERMODYNAMIC EFFICIENCY  
 #THERMODYNAMIC PROPERTIES  
 THERMOELECTRIC COOLING  
 UNSTEADY STATE  
 THERMOELASTICITY  
 0102 3203 3303 3304  
 UP THERMOAEROELASTICITY  
 NT AEROTHERMOELASTICITY  
 BT ELASTIC PROPERTIES  
 #MECHANICAL PROPERTIES  
 RT AEROELASTICITY  
 AEROTHERMODYNAMICS  
 HYDROELASTICITY  
 THERMOELECTRIC GENERATORS  
 THERMOELECTRIC MATERIALS  
 THERMOELECTRIC CONVERSION SYSTEMS  
 USE THERMOELECTRIC POWER GENERATION  
 THERMOELECTRIC COOLING  
 0302 0504 2402 3303  
 UP ETtingshausen COOLERS  
 BT #COOLING  
 RT CRYOGENICS  
 ETtingshausen EFFECT  
 HEAT PUMPS  
 Peltier EFFECTS  
 REFRIGERATING  
 REFRIGERATING MACHINERY  
 THERMODYNAMICS  
 THERMOELECTRICITY  
 THERMOMAGNETIC COOLING  
 THERMOELECTRIC GENERATORS  
 0302 3303 3304  
 UP THERMO-PROTOLTAIC GENERATORS  
 RT SNAP 9A  
 SNAP 10A  
 SNAP 3  
 SNAP 7  
 SNAP 11  
 SNAP 15  
 SNAP 17  
 SNAP 19  
 SNAP 21  
 SNAP 23  
 SNAP 27  
 SNAP 29  
 BT DIRECT POWER GENERATORS  
 #ELECTRIC GENERATORS  
 RT ASTEC SOLAR TURBOELECTRIC GENERATOR  
 FUEL CELLS  
 MAGNETOHYDRODYNAMIC GENERATORS  
 NUCLEAR AUXILIARY POWER UNITS  
 PHOTOELECTRIC GENERATORS

RADIOISOTOPE BATTERIES  
 SNAP  
 SOLAR CELLS  
 SOLAR GENERATORS  
 THERMIONIC CONVERTERS  
 THERMOCOUPLES  
 THERMOELASTICITY  
 THERMOELECTRIC POWER GENERATION  
 THERMOELECTRICITY  
 THERMOELECTRIC MATERIALS  
 0603 2304 2602 3304  
 RT MATERIALS  
 SEMICONDUCTORS (MATERIALS)  
 THERMOELASTICITY  
 THERMOELECTRICITY  
 THERMOELECTRIC OUTER PLANET SPACECRAFT  
 USE TOPS (SPACECRAFT)  
 THERMOELECTRIC POWER GENERATION  
 0302 2304 3304  
 UP THERMOELECTRIC CONVERSION SYSTEMS  
 RT NUCLEAR AUXILIARY POWER UNITS  
 SNAP  
 THERMOELECTRIC GENERATORS  
 THERMOELECTRICITY  
 THERMOELECTRICITY  
 2304 2602 3303 3304  
 UP THOMSON EFFECT  
 RT ETtingshausen EFFECT  
 Peltier EFFECTS  
 Seebeck EFFECT  
 THERMIONIC EMISSION  
 THERMOCOUPLES  
 THERMOELECTRIC COOLING  
 THERMOELECTRIC GENERATORS  
 THERMOELECTRIC MATERIALS  
 THERMOELECTRIC POWER GENERATION  
 THERMOPILES  
 #TRANSPORT PROPERTIES  
 THERMOELEMENT ANMETERS  
 0905 1406 3303  
 BT AMMETERS  
 #MEASURING INSTRUMENTS  
 RT THERMOCOUPLE PYROMETERS  
 THERMOGRAMS  
 USE #RECORDING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 THERMOGRAPHS  
 USE #RECORDING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 THERMOGRAVIMETRY  
 0601 0602 3303  
 RT CHEMICAL ANALYSIS  
 DEHYDRATION  
 PYROLYSIS  
 TEMPERATURE EFFECTS  
 THERMOBALANCES  
 THERMOCHEMISTRY  
 THERMOLUMINESCENCE  
 0605 3303  
 BT #DECAY  
 EMISSION  
 LIGHT EMISSION  
 LUMINESCENCE  
 RT TEMPERATURE EFFECTS  
 #THERMODYNAMIC PROPERTIES  
 THERMOMAGNADYNAMICS  
 USE THERMOMAGNETIC EFFECTS  
 THERMOMAGNETIC COOLING  
 0302 2304 2307 3303 3304  
 UP NERNST GENERATORS  
 BT #COOLING  
 RT CRYOGENICS  
 ETtingshausen EFFECT  
 THERMOELECTRIC COOLING  
 THERMOMAGNETIC EFFECTS  
 2304 2307 2308 3303 3304  
 UP THERMOMAGNADYNAMICS  
 THERMOMAGNETISM  
 BT #MAGNETIC PROPERTIES  
 RT EFFECTS  
 ETtingshausen EFFECT  
 NERNST-ETtingshausen EFFECT  
 THERMOMAGNETISM  
 USE THERMOMAGNETIC EFFECTS  
 THERMOMECHANICS  
 USE THERMODYNAMICS  
 THERMOMETERS  
 1406 1408  
 RT RESISTANCE THERMOMETERS  
 BT #MEASURING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 TEMPERATURE CONTROL

TEMPERATURE MEASUREMENT  
 TEMPERATURE SCALES  
 THERMOMETRY  
 USE TEMPERATURE MEASUREMENT  
 THERMONUCLEAR ENERGY  
 USE THERMONUCLEAR POWER GENERATION  
 THERMONUCLEAR EXPLOSIONS  
 2205 2405 3302 3303  
 BT #EXPLOSIONS  
 NUCLEAR EXPLOSIONS  
 RT AERIAL EXPLOSIONS  
 ARGUS PROJECT  
 FISSION WEAPONS  
 THERMONUCLEAR REACTIONS  
 UNDERGROUND EXPLOSIONS  
 UNDERWATER EXPLOSIONS  
 THERMONUCLEAR POWER GENERATION  
 0301 2205  
 UP THERMONUCLEAR ENERGY  
 RT ASTRON THERMONUCLEAR REACTOR  
 CONTROLLED FUSION  
 #ELECTRIC GENERATORS  
 ENERGY  
 #PINCH EFFECT  
 #PLASMA GENERATORS  
 STELLARATORS  
 ZETA THERMONUCLEAR REACTOR  
 THERMONUCLEAR PROPULSION  
 USE NUCLEAR PROPULSION  
 THERMONUCLEAR REACTIONS  
 2205 2401 2405 3303  
 NT CONTROLLED FUSION  
 NUCLEAR FUSION  
 BT #NUCLEAR REACTIONS  
 RT ASTRON THERMONUCLEAR REACTOR  
 HIGH ENERGY INTERACTIONS  
 MAGNETOHYDRODYNAMICS  
 #PINCH EFFECT  
 #PLASMAS (PHYSICS)  
 PROTON-PROTON REACTIONS  
 RADIOACTIVE DECAY  
 SCYLLA  
 STELLARATORS  
 THERMONUCLEAR EXPLOSIONS  
 ZETA THERMONUCLEAR REACTOR  
 THERMOPHILES  
 0404 0407  
 RT ALGAE  
 FUNGI  
 MESOPHILES  
 PSYCHROPHILES  
 THERMOPHILIC PLANTS  
 0404 0409 3303  
 NT BLUE GREEN ALGAE  
 NOSTOC  
 BT #PLANTS (BOTANY)  
 RT ALGAE  
 THERMOPHYSICAL PROPERTIES  
 1701 1704 2311 3203 3303  
 NT CRITICAL POINT  
 CRITICAL PRESSURE  
 CRITICAL TEMPERATURE  
 EMISSIVITY  
 FUSIBILITY  
 HEAT OF SOLUTION  
 MELTING POINTS  
 PYROELECTRICITY  
 SPECIFIC HEAT  
 SUPERCRITICAL PRESSURES  
 THERMAL CONDUCTIVITY  
 THERMAL DIFFUSION  
 THERMAL DIFFUSIVITY  
 THERMAL STABILITY  
 VAPOR PRESSURE  
 VOLATILITY  
 BT #THERMODYNAMIC PROPERTIES  
 RT Peltier EFFECTS  
 PROPERTIES  
 Seebeck EFFECT  
 SURFACE ENERGY  
 THERMAL EXPANSION  
 THERMOCHEMISTRY  
 THERMOPHYSICS  
 USE THERMODYNAMICS  
 THERMOPILES  
 0302 1002 1413 3304  
 BT THERMOCOUPLES  
 #TRANSDUCERS  
 BT DICKE RADIONETERS  
 INDICATING INSTRUMENTS  
 TEMPERATURE MEASURING INSTRUMENTS  
 THERMOELECTRICITY



# **THERMOPLASTIC FILMS**

THERMOPLASTIC FILMS  
 USE POLYMERIC FILMS  
 THERMOPLASTIC RESINS  
 1804 1805 1808 1809  
 BT #PLASTICS  
 #RESINS  
 RT SYNTHETIC RESINS  
 ACRYLIC RESINS  
 POLYETHYLENES  
 POLYSTYRENE  
 THERMOPLASTICITY  
 THERMOSETTING RESINS  
 THERMOPLASTICITY  
 1809 3203 3303  
 BT #MECHANICAL PROPERTIES  
 PLASTIC PROPERTIES  
 RT BOUGUER LAW  
 TEMPERATURE EFFECTS  
 THERMOPLASTIC RESINS  
 THERMORECEPTORS  
 0408 1409 3303  
 BT #ANATOMY  
 SENSE ORGANS  
 RT BODY TEMPERATURE  
 SKIN (ANATOMY)  
 THERMOREGULATION  
 THERMOREGULATION  
 0405 0408 3303 3304  
 UP BODY TEMPERATURE REGULATION  
 RT BODY TEMPERATURE  
 COLD TOLERANCE  
 HIBERNATION  
 HOMEOSTASIS  
 HYPERTHERMIA  
 HYPOTHERMIA  
 #METABOLISM  
 TEMPERATURE CONTROL  
 THERMORECEPTORS  
 THERMOSETTING RESINS  
 1504 1809 1810 3303  
 NT EPOXY RESINS  
 FURAN RESINS  
 MICARTA  
 NYLON (TRADEMARK)  
 PHENOLIC RESINS  
 POLYANIDE RESINS  
 BT #PLASTICS  
 #RESINS  
 SYNTHETIC RESINS  
 RT BAKELITE (TRADEMARK)  
 #COMPOSITE MATERIALS  
 FORMICA  
 LAMINATES  
 MICARTA  
 POLYESTER RESINS  
 REINFORCED PLASTICS  
 SILICONE RESINS  
 THERMOPLASTIC RESINS  
 THERMOSIPHONS  
 1204 1504 3303 3304  
 BT REGENERATORS  
 RT CONVECTIVE HEAT TRANSFER  
 FREE CONVECTION  
 RADIATORS  
 THERMOSPHERE  
 1302 2003 3303  
 RT CHEMOSPHERE  
 EXOSPHERE  
 HETEROSPHERE  
 HOMOSPHERE  
 IONOSPHERE  
 MAGNETOSPHERE  
 THERMOSTABILITY  
 USE THERMAL STABILITY  
 THERMOSTATS  
 0503 0504 1003 1408 3303 3304  
 BT CONTROL EQUIPMENT  
 ELECTRIC SWITCHES  
 #REGULATORS  
 #SWITCHES  
 RT #AUTOMATIC CONTROL  
 #CONTROLLERS  
 CRYOSTATS  
 TEMPERATURE CONTROL  
 TEMPERATURE MEASURING INSTRUMENTS  
 THERMOTROPISM  
 USE #ANISOTROPY  
 TEMPERATURE EFFECTS  
 THERMOVISCOELASTICITY  
 1202 1809 3303 3304  
 BT ELASTIC PROPERTIES  
 #MECHANICAL PROPERTIES

VISCOELASTICITY  
 RT IRREVERSIBLE PROCESSES  
 STRESS-STRAIN-TIME RELATIONS  
 THESESES  
 1902 2311 3406  
 BT #DOCUMENTS  
 RT HYPOTHESES  
 THETA PINCH  
 1202 1203 2202 2502 3303  
 BT #PINCH EFFECT  
 PLASMA PINCH  
 RT ROTATING PLASMAS  
 THIAMINE  
 0403 0405 1808  
 UP VITAMIN B  
 BT #HETEROCYCLIC COMPOUNDS  
 VITAMINS  
 THIAZINE (TRADEMARK)  
 1808 1811  
 BT DYES  
 #HETEROCYCLIC COMPOUNDS  
 #NITROGEN COMPOUNDS  
 #SULFUR COMPOUNDS  
 THICK FILMS  
 1503 1704 1802  
 RT ELECTRONIC PACKAGING  
 FILMS  
 INTEGRATED CIRCUITS  
 MICROMINIATURIZATION  
 PRINTED CIRCUITS  
 SEMICONDUCTING FILMS  
 THIN FILMS  
 THICK WALLS  
 1202 3203  
 BT WALLS  
 RT BOILER PLATE  
 BULKHEADS  
 REINFORCEMENT (STRUCTURES)  
 #STRUCTURAL MEMBERS  
 THIN WALLS  
 WALL PRESSURE  
 WALL TEMPERATURE  
 THICKENED LEADING EDGES  
 USE LEADING EDGES  
 THICKENERS  
 0603 1202  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT THICKENERS (EQUIPMENT)  
 THICKENERS (MATERIALS)  
 THICKENERS (EQUIPMENT)  
 1202  
 BT CLASSIFIERS  
 #SEPARATORS  
 RT COALESCING  
 PRECIPITATORS  
 THICKENERS  
 THICKENERS (MATERIALS)  
 0602  
 RT #ADDITIVES  
 GELS  
 GREASES  
 THICKENERS  
 THICKNESS  
 3408  
 NT FILM THICKNESS  
 TARGET THICKNESS  
 BT #DIMENSIONS  
 RT #AIRFOIL PROFILES  
 ALTITUDE  
 DEPTH  
 DIAMETERS  
 LENGTH  
 OPTICAL THICKNESS  
 SPACING  
 THICKNESS RATIO  
 VOLUME  
 THICKNESS RATIO  
 0101 3203  
 BT #RATIOS  
 RT #AIRFOIL PROFILES  
 #AIRFOILS  
 FINENESS RATIO  
 THICKNESS  
 THIN AIRFOILS  
 THIN WINGS  
 THIGH  
 0404 0405  
 BT #ANATOMY  
 RT LEG (ANATOMY)

# **NASA THESAURUS (ALPHABETICAL LISTING)**

THIN AIRFOILS  
 0101 0102 0104 3203  
 NT INFINITE SPAN WINGS  
 THIN WINGS  
 BT #AIRFOILS  
 RT #AIRFOIL PROFILES  
 THICKNESS RATIO  
 THIN BODIES  
 THIN BODIES  
 0101 0102 0104 3203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT SLENDER BODIES  
 THIN AIRFOILS  
 THIN PLATES  
 THIN WALLS  
 THIN WINGS  
 THIN FILMS  
 1503 1506 1704 1802  
 (SOLID STATE PHYSICS AND ELECTRONICS)  
 NT ENERGY ABSORPTION FILMS  
 FERROMAGNETIC FILMS  
 MONOMOLECULAR FILMS  
 RT #COATINGS  
 #COMPUTER STORAGE DEVICES  
 ELECTRODE FILM BARRIERS  
 FILMS  
 INTEGRATED CIRCUITS  
 METAL FILMS  
 MICROMINIATURIZATION  
 MINIATURE ELECTRONIC EQUIPMENT  
 MOLECULAR ELECTRONICS  
 PARAMETIONS  
 PELLICLE  
 PLATING  
 PRAETERSONIC DEVICES  
 #RECTIFIERS  
 SEMICONDUCTING FILMS  
 SILICON FILMS  
 SOLID STATE DEVICES  
 SOLID STATE PHYSICS  
 SPUTTERING GAGES  
 THICK FILMS  
 WAFERS  
 THIN LAYER CHROMATOGRAPHY  
 0403 0601 0602  
 RT GAS CHROMATOGRAPHY  
 MONOMOLECULAR FILMS  
 THIN PLATES  
 0101 0102 3203  
 (EXCLUDES THIN SURFACE COATINGS AND  
 FILMS)  
 RT DIAPHRAGMS (MECHANICS)  
 PLAT PLATES  
 FOILS (MATERIALS)  
 METAL PLATES  
 PANELS  
 PARALLEL PLATES  
 PLATES  
 PLATES (STRUCTURAL MEMBERS)  
 SHEETS  
 THIN BODIES  
 THIN WALLS  
 THIN WINGS  
 THIN WALLED SHELLS  
 0101-0102 3203  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT CYLINDRICAL SHELLS  
 MEMBRANE STRUCTURES  
 METAL SHELLS  
 ORTHOTROPIC SHELLS  
 REINFORCED SHELLS  
 SKIN (STRUCTURAL MEMBER)  
 SPHERICAL SHELLS  
 STRESSED-SKIN STRUCTURES  
 THIN WALLS  
 TOROIDAL SHELLS  
 THIN WALLS  
 0101 0102 3203  
 BT WALLS  
 RT BULKHEADS  
 DIAPHRAGMS (MECHANICS)  
 PARTITIONS (STRUCTURES)  
 SKIN (STRUCTURAL MEMBER)  
 THICK WALLS  
 THIN BODIES  
 THIN PLATES  
 THIN WALLED SHELLS  
 THIN WINGS  
 0102 0104 0202 3203  
 NT INFINITE SPAN WINGS

# **WASA THESAURUS (ALPHABETICAL LISTING)**

BT #AIRFOILS  
THIN AIRFOILS  
WINGS  
BT #AIRFOIL PROFILES  
FIXED WINGS  
FLEXIBLE WINGS  
THICKNESS RATIO  
THIN BODIES  
THIN PLATES  
UNCAMBERED WINGS  
THINNERS  
USE SOLVENTS  
THIOLS  
1808  
UP DITHIOLS  
MERCAPTAN  
MERCAPTO COMPOUNDS  
NT CYSTEINE  
DIMERCAPROL  
BT #ALIPHATIC COMPOUNDS  
#SULFUR COMPOUNDS  
BT ALCOHOLS  
PHENOLS  
THIOPLASTICS  
1805 1808 1809 1810  
BT ELASTOMERS  
#RUBBER  
SYNTHETIC RUBBERS  
RT #PLASTICS  
SULFIDES  
THIOUREAS  
0403 1808  
BT AMIDES  
#NITROGEN COMPOUNDS  
UREAS  
THIURONIUM  
0401 0411 1808  
BT AMIDES  
#AMINES  
#NITROGEN COMPOUNDS  
UREAS  
THIXOTROPIC PROPELLANTS  
USE GELLED ROCKET PROPELLANTS  
THIXOTROPY  
1202 2312  
RT GELATION  
GELS  
LIQUEFACTION  
NONNEWTONIAN FLOW  
PHYSICAL PROPERTIES  
SEMISOLIDS  
SOLUBILITY  
VISCOSITY  
THOMAS-FERMI MODEL  
2304 2401  
UP THOMAS-FERMI THEORY  
BT MATHEMATICAL MODELS  
#MODELS  
RT ATOMIC STRUCTURE  
ELECTRON DISTRIBUTION  
PLASMA COMPOSITION  
QUANTUM STATISTICS  
THOMAS-FERMI THEORY  
USE THOMAS-FERMI MODEL  
THOMSON EFFECT  
USE THERMOELECTRICITY  
THOMSON SCATTERING  
0710 2309 2311 3407  
BT ELECTROMAGNETIC SCATTERING  
#SCATTERING  
RT #ELECTROMAGNETIC RADIATION  
THOR ABLE ROCKET VEHICLE  
3103 3106 3401 3409  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
THOR LAUNCH VEHICLES  
THORAD LAUNCH VEHICLES  
RT EXPLORER 6 SATELLITE  
LIQUID PROPELLANT ROCKET ENGINES  
PIONEER 1 SPACE PROBE  
PIONEER 5 SPACE PROBE  
SOLID PROPELLANT ROCKET ENGINES  
THOR AGENA LAUNCH VEHICLE  
3103 3106  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
THOR LAUNCH VEHICLES  
THORAD LAUNCH VEHICLES  
RT AGENA A ROCKET VEHICLE  
AGENA B RANGER PROGRAM

AGENA ROCKET VEHICLES  
DISCOVERER SATELLITES  
EXPLORER 31 SATELLITE  
EXPLORER 34 SATELLITE  
EXPLORER 35 SATELLITE  
EXPLORER 36 SATELLITE  
LIQUID PROPELLANT ROCKET ENGINES  
NIMBUS 1 SATELLITE  
NIMBUS 2 SATELLITE  
NIMBUS SATELLITES  
OGO-B  
XLR-81-BA-13 ENGINE  
THOR DELTA LAUNCH VEHICLE  
3103 3106  
UP ECHO 1 CARRIER ROCKET  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
THOR LAUNCH VEHICLES  
THORAD LAUNCH VEHICLES  
RT ARIEL SATELLITES  
ECHO 1 SATELLITE  
EXPLORER SATELLITES  
LIQUID PROPELLANT ROCKET ENGINES  
OSO  
RELAY SATELLITES  
SOLID PROPELLANT ROCKET ENGINES  
SYNCOM SATELLITES  
TELSTAR SATELLITES  
THOR LAUNCH VEHICLES  
3103 3106  
NT THOR ABLE ROCKET VEHICLE  
THOR AGENA LAUNCH VEHICLE  
THOR DELTA LAUNCH VEHICLE  
BT #LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
#ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
THORAD LAUNCH VEHICLES  
THORAD LAUNCH VEHICLES  
3103  
NT THOR ABLE ROCKET VEHICLE  
THOR AGENA LAUNCH VEHICLE  
THOR DELTA LAUNCH VEHICLE  
BT #LAUNCH VEHICLES  
#ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
THOR LAUNCH VEHICLES  
THORAX  
0404 0405  
RT CHEST  
DIAPHRAGM (ANATOMY)  
STERNUM  
THORIUM  
1703 2406  
NT THORIUM ISOTOPES  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#METALS  
RT NUCLEAR FUELS  
THORIUM ALLOYS  
1701 1704  
BT #ALLOYS  
RT NUCLEAR FUELS  
THORIUM COMPOUNDS  
0603  
NT THORIUM FLUORIDES  
THORIUM OXIDES  
BT #ACTINIDE SERIES COMPOUNDS  
RT CERAMIC NUCLEAR FUELS  
METAL COMPOUNDS  
NUCLEAR FUELS  
THORIUM FLUORIDES  
0603 1804  
BT #ACTINIDE SERIES COMPOUNDS  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
THORIUM COMPOUNDS  
THORIUM ISOTOPES  
0603 1703 2406  
UP THORIUM 228  
THORIUM 230  
THORIUM 234  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
THORIUM

## **THRESHOLD LOGIC**

THORIUM OXIDES  
0603  
BT #ACTINIDE SERIES COMPOUNDS  
#CHALCOGENIDES  
METAL OXIDES  
OXIDES  
THORIUM COMPOUNDS  
RT DIOXIDES  
THORIUM 228  
USE THORIUM ISOTOPES  
THORIUM 230  
USE THORIUM ISOTOPES  
THORIUM 234  
USE THORIUM ISOTOPES  
THORON  
USE RADON  
THREADS  
1504 1811  
(EXCLUDES TEXTILES AND FILAMENTARY FORMS)  
RT BOLTS  
NUTS (FASTENERS)  
SCREWS  
THREE BODY PROBLEM  
1901 1902 2308 3006 3009  
RT CELESTIAL MECHANICS  
FOUR BODY PROBLEM  
MANY BODY PROBLEM  
#ORBITS  
#PERTURBATION  
PROBLEMS  
TROJAN ORBITS  
TWO BODY PROBLEM  
THREE DIMENSIONAL BOUNDARY LAYER  
0101 0102 1202 1203  
BT BOUNDARY LAYERS  
RT AXISYMMETRIC FLOW  
BOUNDARY LAYER TRANSITION  
COMPRESSIBLE BOUNDARY LAYER  
LAMINAR BOUNDARY LAYER  
SECONDARY FLOW  
TURBULENT BOUNDARY LAYER  
VELOCITY DISTRIBUTION  
THREE DIMENSIONAL COMPOSITES  
1704 1805  
BT #COMPOSITE MATERIALS  
RT MATERIALS  
THREE DIMENSIONAL FLOW  
1202 1203  
BT #FLUID FLOW  
THREE DIMENSIONAL MOTION  
#TRANSLATIONAL MOTION  
RT AXIAL FLOW  
CONICAL FLOW  
FLOW GEOMETRY  
HELICAL FLOW  
ONE DIMENSIONAL FLOW  
ROSHKO PREDICTION  
SPHERICAL WAVES  
TWO DIMENSIONAL FLOW  
WEDGE FLOW  
THREE DIMENSIONAL MOTION  
1901 2308 3203  
NT THREE DIMENSIONAL FLOW  
BT #TRANSLATIONAL MOTION  
RT DEGREES OF FREEDOM  
THRESHOLD CURRENTS  
0902 1001 2302 2304  
BT #ELECTRIC CURRENT  
RT LASERS  
THRESHOLD LOGIC  
THRESHOLDS  
THRESHOLD DETECTORS (DOSIMETERS)  
1409 2203 2403  
BT DOSIMETERS  
#MEASURING INSTRUMENTS  
RADIATION DETECTORS  
RADIATION MEASURING INSTRUMENTS  
RT IONIZATION CHAMBERS  
THRESHOLDS  
THRESHOLD GATES  
0801 1001 1201  
BT #CIRCUITS  
GATES (CIRCUITS)  
LOGIC CIRCUITS  
RT THRESHOLD LOGIC  
THRESHOLDS  
TRIGGER CIRCUITS  
THRESHOLD LOGIC  
0802 1001 1201  
BT #MATHEMATICAL LOGIC  
SET THEORY

# THRESHOLD SHIFT

RT GATES (CIRCUITS)  
 LOGIC CIRCUITS  
 THRESHOLD CURRENTS  
 THRESHOLD GATES  
 THRESHOLDS  
 TRANSISTOR LOGIC  
 TRIGGER CIRCUITS

THRESHOLD SHIFT  
 USE THRESHOLDS  
 THRESHOLDS  
 1406 1409 2311 0408 0410  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

UP THRESHOLD SHIFT  
 RT DOORS  
 ENTRANCES  
 NOISE THRESHOLD  
 #RESOLUTION  
 #RESPONSES  
 #SENSITIVITY  
 THRESHOLD CURRENTS  
 THRESHOLD DETECTORS (DOSIMETERS)  
 THRESHOLD GATES  
 THRESHOLD LOGIC  
 THRESHOLDS (PERCEPTION)  
 THRESHOLDS (PERCEPTION)  
 0408 0410  
 RT #ACUITY  
 #ADAPTATION  
 AUDIOMETRY  
 AUDITORY PERCEPTION  
 AUDITORY SENSATION AREAS  
 AUDITORY STIMULI  
 CHRONAXY  
 FREQUENCY RESPONSE  
 HEARING  
 LIGHT ADAPTATION  
 NEUROLOGY  
 #PERCEPTION  
 PHOTSENSITIVITY  
 #SENSITIVITY  
 THRESHOLDS  
 VISION

THROATS  
 1202 1504 2501 2806  
 (EXCLUDES PHARYNX)  
 RT CARBURATORS  
 CHANNELS  
 CHOKES (RESTRICTIONS)  
 DUCTS  
 NOZZLE GEOMETRY  
 NOZZLE INSERTS  
 NOZZLE WALLS  
 ORIFICES

THROMBIN  
 0403 1808  
 RT #ANATOMY  
 BLOOD  
 #BODY FLUIDS  
 CARDIOVASCULAR SYSTEM  
 ENZYMES  
 #PROTEINS  
 RT FIBRINOGEN  
 HEMOSTATICS  
 PROTHROMBIN  
 THROMBOPLASTIN

THROMBOCYTES  
 0404 0406  
 RT BLOOD COAGULATION  
 CLOTTING

THROMBOPEHIA  
 0404 0405  
 RT #DISEASES  
 RT COAGULATION

THROMBOPLASTIN  
 0404 0406  
 RT #ANATOMY  
 BLOOD  
 #BODY FLUIDS  
 CARDIOVASCULAR SYSTEM  
 RT CLOTTING  
 HEMOSTATICS  
 HOMEOSTASIS  
 PLATELETS  
 THROMBIN

THROMBOSIS  
 0405 0408  
 RT #DISEASES  
 RT BLOOD COAGULATION

THROTTLING  
 1504

RT JOULE-THOMSON EFFECT  
 VARIABLE THRUST  
 THROWING  
 1504 3407  
 RT EJECTION  
 SPREADING

#THRUST  
 0101 0201 1202 2311 2801 2808  
 UP THRUST POWER  
 RT HIGH THRUST  
 JET THRUST  
 LOW THRUST  
 MICROTHRUST  
 RETROTHRUST  
 ROCKET THRUST  
 STATIC THRUST  
 VARIABLE THRUST  
 RT ACCELERATION (PHYSICS)  
 AUXILIARY PROPULSION  
 BURNING TIME  
 FORCE  
 JET ENGINES  
 NOZZLE THRUST COEFFICIENTS  
 POWER  
 #PROPULSION  
 REACTION  
 ROCKET ENGINES  
 ROCKET PROPELLANTS  
 SPECIFIC IMPULSE  
 THRUST AUGMENTATION  
 THRUST REVERSAL  
 THRUST TERMINATION  
 THRUST VECTOR CONTROL

THRUST AUGMENTATION  
 0101 2802 2805 2808 3106  
 RT AUGMENTATION  
 RT AFTERBURNING  
 COANDA EFFECT  
 HIGH THRUST  
 SECONDARY INJECTION  
 SHROUDED PROPELLERS  
 #THRUST  
 THRUST CHAMBERS  
 VARIABLE THRUST  
 WATER INJECTION

THRUST BEARINGS  
 1501 1503 2805 2808  
 RT #BEARINGS  
 RT ANTI-FRICTION BEARINGS  
 BALL BEARINGS  
 GAS BEARINGS  
 ROLLER BEARINGS  
 THRUST CHAMBER PRESSURE  
 0401 0501 0502 0504 0506 2808  
 RT #PRESSURE  
 RT THRUST CHAMBERS

THRUST CHAMBERS  
 2805 2806 2808 3301  
 UP ROCKET CHAMBERS  
 ROCKET COMBUSTORS  
 RT ARC CHAMBERS  
 COMBUSTION CHAMBERS  
 DIVERGENT NOZZLES  
 ROCKET ENGINE CASES  
 THRUST AUGMENTATION  
 THRUST CHAMBER PRESSURE

THRUST CONTROL  
 2102 2807  
 RT THRUST VECTOR CONTROL  
 RT #ATTITUDE CONTROL  
 CONTROL  
 CONTROL ROCKETS  
 ENGINE CONTROL  
 JET CONTROL  
 REACTION CONTROL  
 ROCKET ENGINE CONTROL  
 SATELLITE CONTROL  
 THRUST PROGRAMMING  
 TURBOJET ENGINE CONTROL  
 VARIABLE THRUST

THRUST LOADS  
 2805 2808 3106  
 RT DYNAMIC LOADS  
 #LOADS (FORCES)  
 RT AERODYNAMIC LOADS  
 AXIAL COMPRESSION LOADS  
 AXIAL LOADS  
 COMPRESSION LOADS  
 JET THRUST  
 ROCKET THRUST

THRUST MEASUREMENT  
 1406 2805 2808

## NASA THESAURUS (ALPHABETICAL LISTING)

UP IN-FLIGHT THRUST MEASUREMENT  
 BT #MECHANICAL MEASUREMENT  
 RT ACCELEROMETERS  
 DYNAMOMETERS  
 FORCE  
 MEASUREMENT

THRUST POWER  
 USE #THRUST

THRUST PROGRAMMING  
 0802 0803 1904 2805 2808  
 UP OPTIMUM THRUST PROGRAMMING  
 RT PROGRAMMING (SCHEDULING)  
 FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 FLIGHT PLANS  
 ORBITAL MECHANICS  
 PARKING ORBITS  
 PROPULSIVE EFFICIENCY  
 THRUST CONTROL  
 THRUST TERMINATION  
 TRAJECTORY CONTROL

THRUST REVERSAL  
 2805 2808  
 RT AIRCRAFT BRAKES  
 #BRAKES (FOR ARRESTING MOTION)  
 BRAKING  
 DECELERATION  
 #THRUST  
 THRUST TERMINATION

THRUST TERMINATION  
 2805 2808 3106  
 BT STOPPING  
 RT BURNOUT  
 ROCKET THRUST  
 STAGE SEPARATION

#THRUST  
 THRUST PROGRAMMING  
 THRUST REVERSAL  
 VARIABLE THRUST

THRUST VECTOR CONTROL  
 2102 2805 2808 3102 3110  
 UP TVC (CONTROL)  
 BT #ATTITUDE CONTROL  
 DIRECTIONAL CONTROL  
 #FLIGHT CONTROL  
 THRUST CONTROL  
 RT #AUTOMATIC CONTROL  
 AUTOMATIC FLIGHT CONTROL  
 GUIDE VANES  
 GYROSTABILIZERS  
 JET VANES  
 LIQUID INJECTION  
 #MANEUVERABLE SPACECRAFT  
 MISSILE CONTROL  
 NOZZLE THRUST COEFFICIENTS  
 ROCKET ENGINES  
 SECONDARY INJECTION  
 #SPACECRAFT CONTROL  
 #THRUST  
 VARIABLE THRUST  
 VERNIER ENGINES

THRUST-WEIGHT RATIO  
 0101 1406 2805 2808  
 RT #RATIOS  
 RT ACCELERATION (PHYSICS)  
 MASS RATIOS  
 ROCKET ENGINES

THRUSTORS  
 USE ROCKET ENGINES

THULIUM  
 1703  
 RT THULIUM ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 RARE EARTH ELEMENTS

THULIUM COMPOUNDS  
 0603 1804  
 RT #RARE EARTH COMPOUNDS  
 RT METAL COMPOUNDS

THULIUM ISOTOPES  
 2406  
 UP THULIUM 171  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 RARE EARTH ELEMENTS  
 THULIUM

THULIUM 171  
 USE THULIUM ISOTOPES

THUNDERBIRD MISSILE  
 3101 3401  
 BT ANTIAIRCRAFT MISSILES

# NASA THESAURUS (ALPHABETICAL LISTING)

#MISSILES  
SURFACE TO AIR MISSILES  
RT SOLID PROPELLANT ROCKET ENGINES  
THUNDERCHIEF AIRCRAFT  
USE F-105 AIRCRAFT  
THUNDERSTORMS  
1301 1302 2001 2003  
BT RAINSTORMS  
#STORMS  
STORMS (METEOROLOGY)  
RT ATMOSPHERICS  
CLOUDS (METEOROLOGY)  
CUMULONIMBUS CLOUDS  
FRONTS (METEOROLOGY)  
HAIL  
LIGHTNING  
RAIN  
#WIND (METEOROLOGY)  
THYMIDINE  
0403 1808  
BT #ACIDS  
#HETEROCYCLIC COMPOUNDS  
PYRIMIDINES  
RT DEOXYRIBONUCLEIC ACID  
NUCLEOSIDES  
THYMINE  
0403 1808  
BT #ACIDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
PYRIMIDINES  
RT DEOXYRIBONUCLEIC ACID  
THYOL  
0405 1808  
BT ALCOHOLS  
#HYDROXYL COMPOUNDS  
PHENOLS  
THYUS GLAND  
0404 0405  
BT #ANATOMY  
ENDOCRINE GLANDS  
GLANDS (ANATOMY)  
#VISCERA  
THYRATONS  
2202 2403 2405 0905  
BT #RECTIFIERS  
RT SILICON CONTROLLED RECTIFIERS  
THYRISTORS  
0902 0905 0906  
BT #ELECTRONIC EQUIPMENT  
#RECTIFIERS  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
RT JUNCTION TRANSISTORS  
THYRATONS  
TRIGGER CIRCUITS  
TRIODES  
THYROID GLAND  
0405 0408  
BT #ANATOMY  
ENDOCRINE GLANDS  
GLANDS (ANATOMY)  
#VISCERA  
RT CALCIUM METABOLISM  
THYROXINE  
0403 1808  
BT #ACIDS  
AMINO ACIDS  
#ORGANIC COMPOUNDS  
TIBIA  
0404 0405  
BT #ANATOMY  
BONES  
MUSCULOSKELETAL SYSTEM  
LEG (ANATOMY)  
TID  
USE TRAVELING IONOSPHERIC DISTURBANCES  
TIDAL OSCILLATION  
USE TIDES  
TIDES  
1301 1302 1310  
UP TIDAL OSCILLATION  
NT ATMOSPHERIC TIDES  
LUNAR TIDES  
RT ESTUARIES  
FLOODS  
OCEAN CURRENTS  
OCEAN SURFACE  
OCEANOGRAPHY  
SEA ROUGHNESS

TIEBOLTS  
1504  
BT BOLTS  
#FASTENERS  
TIG WELDING  
USE GAS TUNGSTEN ARC WELDING  
TIGHTNESS  
3408  
RT CLOSURES  
TILES  
1801  
RT CERAMICS  
TILT  
USE ATTITUDE (INCLINATION)  
TILT WING AIRCRAFT  
0104 0201 0209  
UP PIVOTED WING AIRCRAFT  
NT CL-84 AIRCRAFT  
VZ-2 AIRCRAFT  
XC-142 AIRCRAFT  
RT PAN IN WING AIRCRAFT  
RESEARCH AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
#V-STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
X-22 AIRCRAFT  
TILTED PROPELLERS  
0101 0102 0104  
BT PROPELLERS  
RT HELICOPTER PROPELLER DRIVE  
TILTING  
USE ATTITUDE (INCLINATION)  
TILTING ROTORS  
0102 0104 0202 1504  
BT #AIRFOILS  
ROTARY WINGS  
#ROTATING BODIES  
ROTORS  
WINGS  
RT XV-3 AIRCRAFT  
TIMBER IDENTIFICATION  
0409 3407  
BT IDENTIFYING  
#RECOGNITION  
RT EARTH RESOURCES  
EVALUATION  
FORESTS  
TREES (PLANTS)  
TIMBER INVENTORY  
0409  
BT INVENTORIES  
RT AERIAL PHOTOGRAPHY  
EARTH RESOURCES  
FORESTS  
INFRARED PHOTOGRAPHY  
#PHOTOGRAPHY  
SATELLITE-BORNE PHOTOGRAPHY  
TREES (PLANTS)  
TIMBER VIGOR  
0409  
RT FOLIAGE  
FORESTS  
#GROWTH  
TREES (PLANTS)  
#TIME  
2311 3406  
UP DURATION  
NT ACCESS TIME  
BURNING TIME  
CHRONAXY  
DOWNTIME  
EPHEMERIS TIME  
FLIGHT TIME  
MTBF  
REACTION TIME  
RELAXATION TIME  
RESPONSE TIME (COMPUTERS)  
TESTING TIME  
TRANSIT TIME  
UNIVERSAL TIME  
RT CALENDARS  
CELESTIAL GEODESY  
CHRONOLOGY  
EXPOSURE  
INTERVALS  
LAUNCH DATES  
MONTH  
PROLONGATION  
RELATIVISTIC EFFECTS  
SYNCHRONISM  
TIME MEASUREMENT  
UNITS OF MEASUREMENT

# TIME MEASUREMENT

TIME CONSTANT  
0603 1001 1406 2311  
NT PERCEPTUAL TIME CONSTANT  
BT #CONSTANTS  
RT ACCESS TIME  
CONSTANT  
DAMPING  
#DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
#IMPEDANCE  
LC CIRCUITS  
RC CIRCUITS  
REACTION TIME  
RELAXATION TIME  
RL CIRCUITS  
RLC CIRCUITS  
TIME LAG  
TIME RESPONSE  
TRANSFER FUNCTIONS  
TRANSIENT RESPONSE  
TIME DELAY  
USE TIME LAG  
TIME DEPENDENCE  
1406 2402 2807  
BT DEPENDENCE  
RT HELMHOLTZ EQUATIONS  
#STOCHASTIC PROCESSES  
TIME LAG  
TIME RESPONSE  
TIME DISCRIMINATION  
0408 1409  
RT COMPARATOR CIRCUITS  
SENSORY DISCRIMINATION  
TIME DIVISION MULTIPLEXING  
0702 0703 0802  
BT MULTIPLEXING  
RT FREQUENCY DIVISION MULTIPLEXING  
PULSE MODULATION  
TELEMETRY  
TELEVISION TRANSMISSION  
TIME FUNCTIONS  
1902 2311  
BT #FUNCTIONS (MATHEMATICS)  
RT #RATES (PER TIME)  
SQUARE WAVES  
#STOCHASTIC PROCESSES  
WAVE FUNCTIONS  
WAVEFORMS  
TIME LAG  
0408 1406 2402 2807  
UP CHRONOTRONS  
LAG (DELAY)  
TIME DELAY  
RT DELAY  
DELAY LINES  
ELECTRIC RELAYS  
HYSTERESIS  
INVENTORY CONTROLS  
REACTION TIME  
REFRACTORY PERIOD  
#RESPONSES  
TIME CONSTANT  
TIME DEPENDENCE  
TIME RESPONSE  
TIME LAPSE PHOTOGRAPHY  
USE CHRONOPHOTOGRAPHY  
TIME MEASUREMENT  
1406  
UP DATING  
EPOCHS  
TIMING  
NT CLOCK PARADOX  
RT ATOMIC CLOCKS  
CHRONOMETERS  
CLOCKS  
CONSECUTIVE EVENTS  
FREQUENCY MEASUREMENT  
MEASUREMENT  
OSCILLOGRAPHY  
RADIOACTIVE AGE DETERMINATION  
#RATES (PER TIME)  
STROBOSCOPES  
SYNCHRONISM  
#TIME  
TIME MEASURING INSTRUMENTS  
TIME RESPONSE  
TIME SIGNALS  
TIMING DEVICES  
VELOCITY  
VELOCITY MEASUREMENT  
WINDOWS (INTERVALS)

# TIME MEASURING INSTRUMENTS

## TIME MEASURING INSTRUMENTS

1406  
 NT ATOMIC CLOCKS  
 CHRONOMETERS  
 CLOCKS  
 TIMING DEVICES  
 BT #MEASURING INSTRUMENTS  
 RT TIME MEASUREMENT  
 TIME OF FLIGHT SPECTROMETERS  
 1406 2311  
 BT SPECTROMETERS  
 RT #SPECTROSCOPY  
 TIME OPTIMAL CONTROL  
 0802 0803 1902  
 BT #AUTOMATIC CONTROL  
 OPTIMAL CONTROL  
 #OPTIMIZATION  
 TIME RESPONSE  
 0408 1003  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 BT #RESPONSES  
 RT ACCESS TIME  
 DELAY  
 RESPONSE BIAS  
 TIME CONSTANT  
 TIME DEPENDENCE  
 TIME LAG  
 TIME MEASUREMENT  
 TIME SERIES ANALYSIS  
 0802 1902  
 RT APPLICATIONS OF MATHEMATICS  
 AUTOCORRELATION  
 CORRELATION  
 CURVE FITTING  
 DATA SAMPLING  
 EXTRAPOLATION  
 #FORECASTING  
 FOURIER ANALYSIS  
 KALMAN-SCHMIDT FILTERING  
 SCHEDULING  
 STATISTICS  
 #STOCHASTIC PROCESSES  
 TRENDS  
 TIME SHARING  
 0802 0803  
 RT COMPUTER PROGRAMMING  
 COORDINATION  
 MULTIPLE OUTPUT PROGRAMS  
 MULTIPROGRAMMING  
 RUN TIME (COMPUTERS)  
 TIME SIGNALS  
 0702 0705  
 RT CLOCK PARADOX  
 FREQUENCY STANDARDS  
 PULSE DURATION  
 SIGNALS  
 TIME MEASUREMENT  
 TIMING DEVICES  
 TIMERS  
 USE TIMING DEVICES  
 TIMING  
 USE TIME MEASUREMENT  
 TIMING DEVICES  
 1402 1406 1410  
 UP TIMERS  
 BT #MEASURING INSTRUMENTS  
 TIME MEASURING INSTRUMENTS  
 RT CHRONOMETERS  
 CLOCK PARADOX  
 CLOCKS  
 DWELL  
 PENDULUMS  
 TACHOMETERS  
 TIME MEASUREMENT  
 TIME SIGNALS  
 TIN  
 1703  
 BT TIN ISOTOPES  
 BT #CHEMICAL ELEMENTS  
 #METALS  
 TIN ALLOYS  
 1701 1704  
 BT #ALLOYS  
 RT BEARING ALLOYS  
 SOLDERS  
 STANNIDES  
 ZIRCALOYS (TRADEMARK)  
 #TIN COMPOUNDS  
 0603  
 RT NIOBIUM STANNIDES

ORGANIC TIN COMPOUNDS  
 STANNATES  
 STANNIDES  
 TIN OXIDES  
 TIN TELLURIDES  
 RT GROUP 4A COMPOUNDS  
 METAL COMPOUNDS  
 TIN ISOTOPES  
 0603 1703 1704 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 TIN  
 TIN OXIDES  
 0603 1804  
 BT #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 #TIN COMPOUNDS  
 TIN TELLURIDES  
 1704 1804  
 BT #CHALCOGENIDES  
 TELLURIDES  
 #TELLURIUM COMPOUNDS  
 #TIN COMPOUNDS  
 TIP DRIVEN ROTORS  
 0104 2805  
 UP HOT CYCLE PROPULSION SYSTEM  
 BT #AIRFOILS  
 ROTARY WINGS  
 #ROTATING BODIES  
 ROTORS  
 WINGS  
 RT IV-9A AIRCRAFT  
 TIP SPEED  
 0101 0102 0104 0201  
 UP TIP VORTICES  
 BT #RATES (PER TIME)  
 VELOCITY  
 RT ANGULAR VELOCITY  
 CRITICAL VELOCITY  
 ROTOR SPEED  
 TIP VORTICES  
 USE TIP SPEED  
 VORTICES  
 TIPS  
 0102 0104  
 NT BLADE TIPS  
 WING TIPS  
 RT #AIRFOIL PROFILES  
 #EDGES  
 TIRES  
 0203 3202  
 RT AIRCRAFT TIRES  
 RT BLOWOUTS  
 INFLATABLE STRUCTURES  
 LANDING GEAR  
 ROLLERS  
 TREADS  
 VEHICLE WHEELS  
 WHEEL BRAKES  
 #WHEELS  
 TIROS D SATELLITE  
 USE TIROS 4 SATELLITE  
 TIROS E SATELLITE  
 USE TIROS 5 SATELLITE  
 TIROS F SATELLITE  
 USE TIROS 6 SATELLITE  
 TIROS G SATELLITE  
 USE TIROS 7 SATELLITE  
 TIROS H SATELLITE  
 USE TIROS 8 SATELLITE  
 TIROS I  
 2003 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT TIROS 1  
 TIROS OPERATIONAL SATELLITE SYSTEM  
 TIROS OPERATIONAL SATELLITE SYSTEM  
 2003 2004 3107 3409  
 RT CLOUD PHOTOGRAPHY  
 ITOS 1  
 SATELLITE OBSERVATION  
 TIROS H  
 TIROS 9 SATELLITE  
 TIROS SATELLITES  
 TIROS PROJECT  
 2003 2004 3107 3409  
 BT NASA PROGRAMS  
 #PROGRAMS

# NASA THESAURUS (ALPHABETICAL LISTING)

PROJECTS  
 RT CLOUD PHOTOGRAPHS  
 CLOUD PHOTOGRAPHY  
 METEOROLOGICAL SATELLITES  
 TIROS 1 SATELLITE  
 2003 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT THOR ABLE LAUNCH VEHICLE  
 TIROS 2 SATELLITE  
 2003 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 3 SATELLITE  
 2003 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 4 SATELLITE  
 2003 2004 3107  
 UP TIROS D SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 5 SATELLITE  
 2003 2004 3107  
 UP TIROS E SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 6 SATELLITE  
 2003 2004 3107  
 UP TIROS F SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 7 SATELLITE  
 2003 2004 3107  
 UP TIROS G SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 8 SATELLITE  
 2003 2004 3107  
 UP TIROS H SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 9 SATELLITE  
 2003 2004 3107  
 UP TIROS WHEEL SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE  
 TIROS 10 SATELLITE  
 2003 2004 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 TIROS SATELLITES  
 RT DELTA LAUNCH VEHICLE

NASA TREASURY (ALPHABETICAL LISTING)

TIROS SATELLITES  
2003 2004 3107 3409  
NT ITOS 1  
TIROS M  
TIROS 1 SATELLITE  
TIROS 2 SATELLITE  
TIROS 3 SATELLITE  
TIROS 4 SATELLITE  
TIROS 5 SATELLITE  
TIROS 6 SATELLITE  
TIROS 7 SATELLITE  
TIROS 8 SATELLITE  
TIROS 9 SATELLITE  
TIROS 10 SATELLITE  
BT ARTIFICIAL SATELLITES  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
\*SATELLITES  
RT CLOUD PHOTOGRAPHY  
ESSA SATELLITES  
POLAR ORBITS  
SATELLITE OBSERVATION  
TIROS OPERATIONAL SATELLITE SYSTEM  
TIROS WHEEL SATELLITE  
USE TIROS 9 SATELLITE  
TISSUES (BIOLOGY)  
0403  
NT ENDOTHELIUM  
EPICARDIUM  
EPITHELIUM  
HYPODERMIS  
NEUROGLIA  
PERITONEUM  
PLANTAR TISSUES  
SCARS  
RT ATROPHY  
CANCER  
CELLS  
\*CELLS (BIOLOGY)  
CULTIVATION  
CYSTIC FIBROSIS  
CYSTS  
FIBROBLASTS  
FIBROSIS  
TITAN ICBM  
3101 3401  
NT TITAN 1 ICBM  
TITAN 2 ICBM  
BT BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
\*MISSILES  
SURFACE TO SURFACE MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES  
LR-87-AJ-3 ENGINE  
LR-91-AJ-3 ENGINE  
LR-91-AJ-5 ENGINE  
MULTISTAGE ROCKET VEHICLES  
YLR-91-AJ-1 ENGINE  
TITAN 1 ICBM  
3101 3103 3401  
UP SM-68 MISSILE  
BT BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
\*MISSILES  
SURFACE TO SURFACE MISSILES  
TITAN ICBM  
RT LR-87-AJ-5 ENGINE  
TITAN 2 ICBM  
3101 3409  
UP SM-68B MISSILE  
BT BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC MISSILES  
\*MISSILES  
SURFACE TO SURFACE MISSILES  
TITAN ICBM  
RT HYLA-STAR ROCKET VEHICLE  
TITAN 3 LAUNCH VEHICLE  
3101 3103 3409  
BT \*LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
TITAN LAUNCH VEHICLES  
RT HANNED ORBITAL LABORATORIES  
TITAN LAUNCH VEHICLES  
3101 3103  
NT TITAN 3 LAUNCH VEHICLE  
BT \*LAUNCH VEHICLES  
MULTISTAGE ROCKET VEHICLES  
\*ROCKET VEHICLES  
RT GEMINI 3 FLIGHT  
GEMINI 7 FLIGHT  
GEMINI 8 FLIGHT

GEMINI 9 FLIGHT  
GEMINI 10 FLIGHT  
GEMINI 11 FLIGHT  
GEMINI 12 FLIGHT  
LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
TITAN PROJECT  
TITAN PROJECT  
3101 3103 3401 3409  
BT NASA PROGRAMS  
\*PROGRAMS  
PROJECTS  
BOOSTERS  
BT GEMINI PROJECT  
GEMINI SPACECRAFT  
\*LAUNCH VEHICLES  
\*LAUNCHERS  
\*LAUNCHING  
TITAN LAUNCH VEHICLES  
TITANATES  
0603  
NT BARIUM TITANATES  
ILMENEITE  
LEAD TITANATES  
MAGNESIUM TITANATES  
PEROVSKITES  
STRONTIUM TITANATES  
ZIRCONIUM TITANATES  
BT \*TITANIUM COMPOUNDS  
BT EUXENITE  
TITANIUM  
0603 1703  
NT TITANIUM ISOTOPES  
BT \*CHEMICAL ELEMENTS  
\*METALS  
TRANSITION METALS  
TITANIUM ALLOYS  
1701  
NT NITINOL ALLOYS  
BT \*ALLOYS  
TITANIUM BORIDES  
0603 1804  
BT BORIDES  
\*BORON COMPOUNDS  
\*TITANIUM COMPOUNDS  
TITANIUM CARBIDES  
0603 1804  
BT CARBIDES  
\*CARBON COMPOUNDS  
\*TITANIUM COMPOUNDS  
TITANIUM CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
\*HALOGEN COMPOUNDS  
METAL HALIDES  
\*TITANIUM COMPOUNDS  
\*TITANIUM COMPOUNDS  
0603  
BT ANATASE  
BARIUM TITANATES  
ILMENEITE  
LEAD TITANATES  
MAGNESIUM TITANATES  
PEROVSKITES  
RUTILE  
STRONTIUM TITANATES  
TITANATES  
TITANIUM BORIDES  
TITANIUM CARBIDES  
TITANIUM CHLORIDES  
TITANIUM NITRIDES  
TITANIUM OXIDES  
ZIRCONIUM TITANATES  
GROUP 4B COMPOUNDS  
METAL COMPOUNDS  
TITANIUM DIOXIDE  
USE TITANIUM OXIDES  
TITANIUM ISOTOPES  
0603 1703 2406  
BT \*CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
TITANIUM  
TITANIUM NITRIDES  
0603 1804  
BT NITRIDES  
\*NITROGEN COMPOUNDS  
\*TITANIUM COMPOUNDS  
TITANIUM OXIDES  
0603 1804

TONGUE

UP TITANIUM DIOXIDE  
BT ANATASE  
ILMENEITE  
RUTILE  
BT \*CHALCOGENIDES  
METAL OXIDES  
OXIDES  
\*TITANIUM COMPOUNDS  
BT DIOXIDES  
TITRATION  
0601 0603  
BT \*CHEMICAL REACTIONS  
RT ACIDITY  
COULOMETERS  
IODIMETRY  
ION CONCENTRATION  
KJELDAHL METHOD  
SOLUTIONS  
TITRIMETERS  
0601 0604 1406  
BT \*MEASURING INSTRUMENTS  
RT CHEMICAL ANALYSIS  
TNT (TRINITROTOLUENE)  
USE TRINITROTOLUENE  
TOBACCO  
0409  
BT \*PLANTS (BOTANY)  
RT NICOTINE  
TOCOPHEROL  
0403 0405 1808  
UP VITAMIN E  
BT \*HETEROCYCLIC COMPOUNDS  
VITAMINS  
TOLERANCES (MECHANICS)  
1406 1902 2311 3406 3408  
NT IMPACT TOLERANCES  
RT ACCEPTABILITY  
ACCURACY  
ALLOWANCES  
CLEARANCES  
CONSISTENCY  
DIMENSIONAL STABILITY  
DRIFT (INSTRUMENTATION)  
ERRORS  
HYSTERESIS  
INSPECTION  
LINEARITY  
\*MECHANICAL PROPERTIES  
\*NONDESTRUCTIVE TESTS  
PRECISION  
QUALITY CONTROL  
RADIATION TOLERANCE  
\*RANGE (EXTREMES)  
RELIABILITY  
\*RESOLUTION  
\*SENSITIVITY  
SPECIFICATIONS  
\*STABILITY  
STANDARDS  
TOLERANCES (PHYSIOLOGY)  
0401 0408 0502  
NT ACCELERATION TOLERANCE  
ALTITUDE TOLERANCE  
COLD TOLERANCE  
HEAT TOLERANCE  
HUMAN TOLERANCES  
RADIATION TOLERANCE  
RT ACCLIMATIZATION  
BARANY CHAIR  
BIOCONTROL SYSTEMS  
HUMAN TOLERANCES  
IMPACT RESISTANCE  
NOISE TOLERANCE  
ORTHOSTATIC TOLERANCE  
\*RANGE (EXTREMES)  
RESISTANCE  
\*STRESS (PHYSIOLOGY)  
TOLLEMIN-SCHLICHTING WAVES  
0101 0710 1202 1203  
BT ELASTIC WAVES  
RT BLASIUS FLOW  
BOUNDARY LAYER FLOW  
BOUNDARY LAYER TRANSITION  
LAMINAR FLOW  
TURBULENT FLOW  
TOLUENE  
1808 2701 3302  
BT \*HYDROCARBONS  
TONE  
USE PITCH  
TONGUE  
0404 0408

# **TONG METEORITE**

BT #DIGESTIVE SYSTEM  
 RT MOUTH  
 VOICE  
**TONG METEORITE**  
 3005  
 BT CARBONACEOUS METEORITES  
 #CELESTIAL BODIES  
 CHONDRITES  
 METEORITES  
 STONY METEORITES  
**TONOMETRY**  
 USE INTRAOCULAR PRESSURE  
 PRESSURE MEASUREMENTS  
**TONUS**  
 USE MUSCULAR TONUS  
**TOOLING**  
 1504  
 RT AUTOMATION  
 #MACHINING  
 MECHANIZATION  
 SETUPS  
 #TOOLS  
 1504  
 NT BORING MACHINES  
 DRILL BITS  
 FILES (TOOLS)  
 GRINDING MACHINES  
 LATHES  
 MACHINE TOOLS  
 MILLING MACHINES  
 SAWS  
 SHAPERS  
 SHEARS  
 SPACE TOOLS  
 TURRET LATHES  
 WRENCHES  
 RT ANVILS  
 #CUTTERS  
 DRILLS  
 FIXTURES  
 HAMMERS  
 HARDWARE  
 JIGS  
 KITS  
 MACHINERY  
 MECHANICAL DEVICES  
 MECHANIZATION  
 PLATES  
 PRESSES  
 PRODUCTION  
 TAPS  
 TOOLING  
**TOOTH DISEASES**  
 0404 0405  
 UP AERODONTALGIA  
 BT #DISEASES  
 #MEDICAL SCIENCE  
 RT CAVITIES  
 DENTAL CALCULI  
 DENTISTRY  
**TOPOGRAPHY**  
 1304 1305 3004 3007  
 UP LANDSCAPE  
 NT LUNAR TOPOGRAPHY  
 TERRAIN  
 RT BEACHES  
 CLIFFS  
 CONTOURS  
 DEPRESSION  
 DESERTS  
 EARTH SURFACE  
 ELEVATION  
 ELEVATION ANGLE  
 GEODESY  
 GEODETIC SURVEYS  
 GEOMORPHOLOGY  
 GEOPHYSICS  
 GULFS  
 HIGHLANDS  
 JUPITER RED SPOT  
 LAND  
 LANDMARKS  
 LEDGES  
 MAPPING  
 MARIA  
 MARS SURFACE  
 OCEANOGRAPHY  
 PLANETARY SURFACES  
 PROFILES  
 RELIEF MAPS  
 SLOPES

STAIRSTEPS  
 SURFACE ROUGHNESS  
 VALLEYS  
**TOPOLOGY**  
 1902  
 BT FIXED POINTS (MATHEMATICS)  
 HOMOTOPY THEORY  
 IMBEDDINGS (MATHEMATICS)  
 INVARIANT IMBEDDINGS  
 LINKS (MATHEMATICS)  
 METRIC SPACE  
 BT #GEOMETRY  
 CELLS  
 CONTINUITY  
 CONTINUITY (MATHEMATICS)  
 CONTINUOUS /  
 #DEFORMATION  
 #DIMENSIONS  
 FIBERS (MATHEMATICS)  
 HOMOLOGY  
 INTERVALS  
 ISOPERIMETRIC PROBLEM  
 MANIFOLDS (MATHEMATICS)  
 MAPPING  
 NETWORK SYNTHESIS  
 NETWORKS  
 SHAPES  
 SWITCHING THEORY  
 TORUSES  
 TREES (MATHEMATICS)  
**TOPS (SPACECRAFT)**  
 3007 3107 3110  
 UP THERMOELECTRIC OUTER PLANET  
 SPACECRAFT  
 BT #INTERPLANETARY SPACECRAFT  
 RT FLYBY MISSIONS  
 INTERPLANETARY FLIGHT  
 OUTER PLANETS EXPLORERS  
 SPACE EXPLORATION  
 SPACE MISSIONS  
 SPACECRAFT  
**TORCHES**  
 1507 2501 3303  
 RT CUTTING  
 PYROGEN  
 #WELDING  
 WELDING MACHINES  
**TORNADOES**  
 1301 2001 2003  
 BT #STORMS  
 STORMS (METEOROLOGY)  
 RT ATMOSPHERIC CIRCULATION  
 CUMULONIMBUS CLOUDS  
 CYCLONES  
 FRONTS (METEOROLOGY)  
 GROUND WIND  
 HURRICANES  
 NATIONAL SEVERE STORMS PROJECT  
 RAINSTORMS  
 TROPICAL STORMS  
 TYPHOONS  
 #WIND (METEOROLOGY)  
**TOROIDAL DISCHARGE**  
 2402 2403 2406  
 NT RING DISCHARGE  
 BT #ELECTRIC CURRENT  
 ELECTRIC DISCHARGES  
 GAS DISCHARGES  
 TOWNSEND DISCHARGE  
 RT ELECTRODELESS DISCHARGES  
 HIGH FREQUENCIES  
 PLASMA JETS  
 SPECTRUM ANALYSIS  
**TOROIDAL PLASMAS**  
 2502  
 UP PLASMA RINGS  
 RT #PARTICLES  
 PLASMA CONTROL  
 RINGS  
 ROTATING PLASMAS  
 SOLENOIDS  
 STELLARATORS  
**TOROIDAL SHELLS**  
 0102 3109 3203  
 BT #SHELLS (STRUCTURAL FORMS)  
 RT METAL SHELLS  
 REINFORCED SHELLS  
 SKIN (STRUCTURAL MEMBER)  
 THIN WALLED SHELLS  
 TOROIDS  
**TOROIDS**  
 0904 0905

# **NASA THESAURUS (ALPHABETICAL LISTING)**

BT COILS  
 CURVES  
 #GEOMETRY  
 INDUCTORS  
 ION IMPACT  
 MAGNET COILS  
 MAGNETIC CORES  
 TOROIDAL SHELLS  
 TRANSFORMERS  
**TORPEDO ENGINES**  
 3101 3401  
 BT CONTROL ROCKETS  
 SYNCOM APOGEE ENGINES  
 TURBOROCKET ENGINES  
 ULLAGE ROCKET ENGINES  
 VERNIER ENGINES  
 YLR-101-NA-13 ENGINE  
 YLR-101-NA-15 ENGINE  
 BT #ENGINES  
 RT INTERNAL COMBUSTION ENGINES  
 ROCKET PROPELLANTS  
 TURBINE ENGINES  
 UNDERWATER PROPULSION  
**TORPEDOES**  
 3101 3401  
 UP RESEARCH TORPEDO CONFIGURATIONS  
 RETORC (TORPEDOES)  
 BT #EXPLOSIVE DEVICES  
 RT AMMUNITION  
 ANTISUBMARINE WARFARE  
 ASROC ENGINE  
 BOMBS (ORDNANCE)  
 CONFIGURATIONS  
 #COUNTERMEASURES  
 EXPLOSIVES  
 HYDROBALLISTICS  
 #MISSILES  
 NUCLEAR WEAPONS  
 #PROPELLANTS  
 ROCKETS  
 SEA LAUNCHING  
 SHAPED CHARGES  
 SUBMERGED BODIES  
 UNDERWATER TRAJECTORIES  
 WARHEADS  
 #WEAPONS  
**TORQUE**  
 0201 1704 2308 2311 3203  
 UP HINGE MOMENTS  
 BT #MOMENTS  
 RT BENDING MOMENTS  
 FORCE  
 LOADING MOMENTS  
 MOMENTS OF INERTIA  
 PITCHING MOMENTS  
 ROLLING MOMENTS  
 ROTATION  
 SHAFTS (MACHINE ELEMENTS)  
 TORQUEMETERS  
 TORSION  
 TORSIONAL STRESS  
 TORSIONAL VIBRATION  
 TWISTING  
 YAWING MOMENTS  
**TORQUE MEASURING APPARATUS**  
 USE TORQUEMETERS  
**TORQUE MOTORS**  
 0904 1504 2308  
 BT ELECTRIC MOTORS  
 RT #MOTORS  
 ACTUATORS  
 SERVOMOTORS  
**TORQUEMETERS**  
 1406 2308  
 UP TORQUE MEASURING APPARATUS  
 BT #MEASURING INSTRUMENTS  
 RT DYNAMOMETERS  
 #MECHANICAL MEASUREMENT  
 TORQUE  
**TORQUERS**  
 0701 0801 0904 1201  
 BT #TRANSDUCERS  
 RT DEGREES OF FREEDOM  
 #GYROSCOPES  
**TORSION**  
 1505 1704 2308 2311 3203  
 RT BUCKLING  
 DEFLECTION  
 #DEFORMATION  
 FORCE  
 #MOMENTS  
 TEMPERATURE INVERSIONS

NASA THESAURUS (ALPHABETICAL LISTING)

TORQUE  
TORSIONAL STRESS  
TORSIONAL VIBRATION  
TWISTING  
TORSIONAL STRESS  
2308 2601 3203  
BT SHEAR STRESS  
RT STRESSES  
RT TORQUE  
TORSION  
TORSIONAL VIBRATION  
0101 2312 3203  
BT STRUCTURAL VIBRATION  
RT VIBRATION  
RT MISSILE VIBRATION  
RANDOM VIBRATION  
SELF INDUCED VIBRATION  
SHEAR STRAIN  
TORQUE  
TORSION  
TWISTING  
TORSO  
0404 0405  
BT ANATOMY  
RT CHEST  
TORUSES  
1902  
BT ANALYTIC GEOMETRY  
BODIES OF REVOLUTION  
EUCLIDEAN GEOMETRY  
GEOMETRY  
SYMMETRICAL BODIES  
RT DESCRIPTIVE GEOMETRY  
LOOPS  
RINGS  
TOPOLOGY  
TORY 2-A REACTOR  
2203 2204 2404 2405  
BT NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
TORY 2-C REACTOR  
2405  
BT NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
TORY 2 REACTOR  
2203 2204 2404 2405  
BT NUCLEAR ELECTRIC POWER GENERATION  
NUCLEAR POWER REACTORS  
NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
TOS-A  
USE ESSA 3 SATELLITE  
TOUCH  
0408  
UP CUTANEOUS PERCEPTION  
TACTILE SENSATION  
NT TACTILE DISCRIMINATION  
RT PERCEPTION  
SKIN (ANATOMY)  
TOUCHDOWN  
3105  
BT LANDING  
RT AIRCRAFT LANDING  
APPROACH  
DOWNRANGE  
SPACECRAFT LANDING  
VERTICAL LANDING  
VERTICAL MOTION  
WATER LANDING  
TOUGHNESS  
1704 2311 3204 3408  
NT NOTCH SENSITIVITY  
BT MECHANICAL PROPERTIES  
RT ABRASION RESISTANCE  
BRITTLENESS  
COMPRESSIVE STRENGTH  
CRACK INITIATION  
DUCTILITY  
FRACTURE STRENGTH  
HARDNESS  
IMPACT TESTS  
SHEAR PROPERTIES  
TENSILE STRENGTH  
TOURNALINE  
1806 2601  
BT ALUMINUM COMPOUNDS  
BORON COMPOUNDS  
MINERALS

SILICATES  
SILICON COMPOUNDS  
SODIUM COMPOUNDS  
SODIUM SILICATES  
RT IGNEOUS ROCKS  
TOURNIQUETS  
0405  
BT MEDICAL EQUIPMENT  
RT BLOOD CIRCULATION  
BLOOD FLOW  
FIRST AID  
TOWED BODIES  
0202 0208  
UP DROGUES  
TOWED TARGETS  
RT AIRCRAFT BRAKES  
BODIES  
BRAKES (FOR ARRESTING MOTION)  
BRAG CHUTES  
GLIDERS  
LIFTING BODIES  
PARACHUTES  
SLEDS  
STREAMLINED BODIES  
SUBMERGED BODIES  
TEST VEHICLES  
TOWING  
TRAILERS  
TOWED TARGETS  
USE TARGETS  
TOWED BODIES  
TOWER SHIELDING REACTOR 2  
2203 2204  
BT NUCLEAR REACTORS  
NUCLEAR RESEARCH AND TEST REACTORS  
RT RADIATION SHIELDING  
TOWERS  
1101 1102 1104 3102  
NT AIRPORT TOWERS  
UMBILICAL TOWERS  
RT AIR TRAFFIC CONTROL  
ANTENNAS  
BRIDGES (STRUCTURES)  
COLUMNS (SUPPORTS)  
CRANES  
PYLONS  
STRUCTURES  
TANKS (CONTAINERS)  
TOWING  
0205 0208 1102 3404  
RT CABLES (ROPES)  
TOWED BODIES  
TRACTORS  
TRAILERS  
TOWNSEND AVALANCHE  
1203 2304 2404 2502  
UP TOWNSEND SURFACES  
BT AVALANCHES  
RT ELECTROMAGNETIC ABSORPTION  
ELECTRON AVALANCHE  
ION IMPACT  
SECONDARY EMISSION  
TOWNSEND DISCHARGE  
TOWNSEND DISCHARGE  
1203 2304 2502  
NT GAS DISCHARGES  
RING DISCHARGE  
TOROIDAL DISCHARGE  
BT ELECTRIC CURRENT  
ELECTRIC DISCHARGES  
RT ELECTRODELESS DISCHARGES  
ION IMPACT  
TOWNSEND AVALANCHE  
TOWNSEND SURFACES  
USE TOWNSEND AVALANCHE  
TOXIC DISEASES  
0412  
UP POISONING (TOXICOLOGY)  
NT CARBON MONOXIDE POISONING  
LEAD POISONING  
BT DISEASES  
RT CLOSTRIDIUM BOTULINUM  
DIPHTHERIA  
HYPEROXIA  
POISONING  
TOXICITY  
TOXICOLOGY  
TOXIC HAZARDS  
0411 0412 0502  
BT HAZARDS  
RT AIRCRAFT HAZARDS  
FLIGHT HAZARDS

TRACING

POISONING  
TOXICITY  
TOXICITY  
0412 3408  
NT CARBON MONOXIDE POISONING  
LEAD POISONING  
RT CHEMICAL PROPERTIES  
HYPEROXIA  
POISONS  
TOXIC DISEASES  
TOXIC HAZARDS  
TOXICOLOGY  
TOXINS AND ANTITOXINS  
VIRULENCE  
TOXICITY AND SAFETY HAZARD  
0411 0412 0502  
BT IRRITATION  
RT ACROLINS  
BENZENE POISONING  
BERYLLIUM POISONING  
CARBON TETRACHLORIDE POISONING  
CHEMICAL PROPERTIES  
HYDROCARBON POISONING  
INTOXICATION  
TOXICOLOGY  
0405 0412  
RT BENZENE POISONING  
BERYLLIUM POISONING  
CARBON TETRACHLORIDE POISONING  
CURARE  
ENDOTOXINS  
FUNGICIDES  
HAZARDS  
HYDROCARBON POISONING  
INSECTICIDES  
INTOXICATION  
POLLUTION  
TOXIC DISEASES  
TOXICITY  
VACCINES  
TOXINS AND ANTITOXINS  
0405 0412  
NT ENDOTOXINS  
RT IMMUNITY  
KEROSENE POISONING  
TOXICITY  
VACCINES  
TRAAC SATELLITE  
USE TRANSIT ATTITUDE CONTROL SATELLITE  
TRACE CONTAMINANTS  
0411 2603  
BT CONTAMINANTS  
RT CHEMICAL ELEMENTS  
IMPURITIES  
PURITY  
TRACE ELEMENTS  
TRACING  
TRACE ELEMENTS  
0404 0603  
BT CHEMICAL ELEMENTS  
RT NUTRIENTS  
TRACE CONTAMINANTS  
TRACING  
TRACERS  
0405 0501 0601 0603  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AMMUNITION  
ISOTOPIC LABELING  
MARKING  
TRACEA  
0404  
BT ANATOMY  
BRONCHIAL TUBE  
RESPIRATORY SYSTEM  
RT BRONCHI  
TUBES  
TRACHYTE  
1305 1306  
BT IGNEOUS ROCKS  
ROCKS  
RT SYENITE  
TRACING  
0404 0601 0602 2406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DRAWINGS  
TRACE CONTAMINANTS  
TRACE ELEMENTS



## TRACKERS

## TRACKERS

USE #TRACKING (POSITION)

#TRACKING (POSITION)

0702 0709 1003 1109 3006 3407

UP TRACKERS  
 TRACKING STUDIES  
 NT COMPENSATORY TRACKING  
 INFRARED TRACKING  
 MISSILE TRACKING  
 OPTICAL TRACKING  
 PHOTOGRAPHIC TRACKING  
 POLYSTATION DOPPLER TRACKING SYSTEM  
 PURSUIT TRACKING  
 RADAR TRACKING  
 RADIO TRACKING  
 RANGE AND RANGE RATE TRACKING  
 SATELLITE TRACKING  
 SPACE DETECTION AND TRACKING SYSTEM  
 SPACECRAFT TRACKING  
 STAR TRACKERS  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT DETECTION  
 APPROACH CONTROL  
 #DETECTION  
 IDENTIFYING  
 INSTRUMENT LANDING SYSTEMS  
 MULTISPECTRAL TRACKING TELESCOPES  
 POSITION (LOCATION)  
 RANGEFINDING  
 RAY TRACING  
 SOLAR SENSORS  
 SOUND LOCALIZATION  
 SOUND RANGING  
 TRACKING NETWORKS  
 TRACKING STATIONS  
 TRACKS

TRACKING AND DATA RELAY SATELLITES

USE TDR SATELLITES

TRACKING ANTENNAS

USE DIRECTIONAL ANTENNAS

TRACKING FILTERS

0701 0709 0905

BT #ELECTRIC FILTERS

RT ADAPTIVE FILTERS

BANDWIDTH

PHASE LOCKED SYSTEMS

TRACKING NETWORKS

0702 0709 1109

NT DEEP SPACE NETWORK

GLOBAL TRACKING NETWORK

MANNED SPACE FLIGHT NETWORK

NETS (SYSTEMS)

POLYSTATION DOPPLER TRACKING SYSTEM

SPACE DETECTION AND TRACKING SYSTEM

STADAN (SATELLITE TRACKING NETWORK)

RT DATA ACQUISITION

GROUND SUPPORT EQUIPMENT

MINITRACK SYSTEM

MISSILE TRACKING

NETWORKS

SPACECRAFT TRACKING

#TRACKING (POSITION)

TRACKING STATIONS

TRACKING RADAR

0705 0709 1109

BT #RADAR

RT COHERENT RADAR

CONTINUOUS WAVE RADAR

DIGITAL RADAR SYSTEMS

MONOPULSE RADAR

PULSE RADAR

RADAR TRACKING

SATELLITE-BORNE RADAR

SEARCH RADAR

SURVEILLANCE RADAR

TRADEX RADAR SYSTEM

TRAJECTORY MEASUREMENT

TRACKING STATIONS

0709 1109

NT DEEP SPACE INSTRUMENTATION FACILITY

GLOBAL TRACKING NETWORK

POLYSTATION DOPPLER TRACKING SYSTEM

SPACE DETECTION AND TRACKING SYSTEM

STADAN (SATELLITE TRACKING NETWORK)

BT #STATIONS

RT FENCES

GROUND STATIONS

GROUND SUPPORT EQUIPMENT

JODRELL BANK OBSERVATORY

MARS

MINITRACK SYSTEM

MISSILE TRACKING

SPACECRAFT TRACKING

#TRACKING (POSITION)

TRACKING NETWORKS

TRACKING STUDIES

USE #TRACKING (POSITION)

TRACKS

1109 3006

(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)

UP TRAILS

RT CONVEYORS

GROUND TRACKS

METEOR TRAILS

MINITRACK SYSTEM

PARTICLE TRAJECTORIES

SHOKE TRAILS

#TRACKING (POSITION)

VEHICULAR TRACKS

TRACTION

1503 2308

RT #FRICTION

TRACTORS

0205 1504

NT CRAWLER TRACTORS

BT #SURFACE VEHICLES

RT AGRICULTURE

GROUND HANDLING

#HANDLING EQUIPMENT

MATERIALS HANDLING

SLEDS

TOWING

#TRANSPORTATION

TRUCKS

VEHICLES

TRACTS

USE #SITES

TRADEOFFS

3404 3406

RT DECISION MAKING

MANAGEMENT ANALYSIS

MANAGEMENT PLANNING

TRADESCANTIA

0407 0409

BT #PLANTS (BOTANY)

TRADEX RADAR SYSTEM

0702 0705 0709

BT #RADAR

RT SEARCH RADAR

TARGET RECOGNITION

TRACKING RADAR

TRAFFIC

0203 0506 2101

NT AIR TRAFFIC

RT ACCIDENTS

#TRAFFIC CONTROL

#TRANSPORTATION

#TRAFFIC CONTROL

1101 1102 2101

NT AIR TRAFFIC CONTROL

RADAR APPROACH CONTROL

RT AIRPORT TOWERS

APPROACH CONTROL

COLLISION AVOIDANCE

CONTROL

#GROUND BASED CONTROL

NATIONAL AVIATION SYSTEM

TRAFFIC

TRAGACANTH

0409

BT #PLANTS (BOTANY)

TRAILBLAZER 1 REENTRY VEHICLE

3105

UP TRAILBLAZER 1 ROCKET VEHICLE

TRAILBLAZER 1 ROCKET

BT #REENTRY VEHICLES

RT HONEST JOHN ROCKET VEHICLE

LANCE MISSILE

MULTISTAGE ROCKET VEHICLES

NIKE-AJAX MISSILE

#ROCKET VEHICLES

SOLID PROPELLANT ROCKET ENGINES

TRAILBLAZER 2 REENTRY VEHICLE

3105

UP TRAILBLAZER 2 ROCKET VEHICLE

TRAILBLAZER 2 ROCKET

BT #REENTRY VEHICLES

RT MULTISTAGE ROCKET VEHICLES

#ROCKET VEHICLES

SOLID PROPELLANT ROCKET ENGINES

TX-354 ENGINE

## NASA THESAURUS (ALPHABETICAL LISTING)

TRAILBLAZER 1 ROCKET VEHICLE

USE TRAILBLAZER 1 REENTRY VEHICLE

TRAILBLAZER 2 ROCKET VEHICLE

USE TRAILBLAZER 2 REENTRY VEHICLE

TRAILBLAZER 1 ROCKET

USE TRAILBLAZER 1 REENTRY VEHICLE

TRAILBLAZER 2 ROCKET

USE TRAILBLAZER 2 REENTRY VEHICLE

TRAILERS

0802 1101 1103 1504

UP WAGONS

RT AUTOMOBILES

COUPLINGS

SLEDS

TANK TRUCKS

TOWED BODIES

TOWING

TRUCKS

TRAILING-EDGE FLAPS

0101 0102 0104 0201

UP VARIABLE AREA WINGS

BT AERODYNAMIC BRAKES

AIRCRAFT BRAKES

#AIRFOILS

#BRAKES (FOR ARRESTING MOTION)

#CONTROL SURFACES

#DRAG DEVICES

FLAPS (CONTROL SURFACES)

WING FLAPS

RT JET FLAPS

LEADING EDGE SLATS

SPLIT FLAPS

TRAILING EDGES

TRAILING EDGES

0101 0102 0104 0201

BT #EDGES

RT #AIRFOILS

LEADING EDGES

TRAILING-EDGE FLAPS

TRAILS

USE TRACKS

TRAINEES

USE STUDENTS

TRAINERS

USE TRAINING DEVICES

TRAINING

USE #EDUCATION

TRAINING AIRCRAFT

0201 0502

NT CL-41 AIRCRAFT

DH 115 AIRCRAFT

G-91 AIRCRAFT

JAGUAR AIRCRAFT

JET PROVOST AIRCRAFT

L-29 JET TRAINER

PZL M-4 AIRCRAFT

T-2 AIRCRAFT

T-28 AIRCRAFT

T-33 AIRCRAFT

T-37 AIRCRAFT

T-38 AIRCRAFT

T-39 AIRCRAFT

TS-11 AIRCRAFT

RT AIRCRAFT

#BOMBER AIRCRAFT

FIGHTER AIRCRAFT

GENERAL AVIATION AIRCRAFT

#JET AIRCRAFT

LIGHT AIRCRAFT

MILITARY AIRCRAFT

SUBSONIC AIRCRAFT

TRAINING DEVICES

TRAINING DEVICES

0201 0202 0203 0502

UP AUDIO VISUAL EQUIPMENT

TRAINERS

NT TEACHING MACHINES

RT ALTITUDE SIMULATION

COCKPIT SIMULATORS

DEVICES

#EDUCATION

EDUCATIONAL TELEVISION

FLIGHT SIMULATORS

#ONBOARD EQUIPMENT

#SIMULATORS

TRAINING AIRCRAFT

VISUAL AIDS

TRAINING SIMULATORS

0502

UP MISSILE SIMULATORS (TRAINING)

SIMULATOR TRAINING

NT COCKPIT SIMULATORS

# NASA THESAURUS (ALPHABETICAL LISTING)

FLIGHT SIMULATORS  
 SPACECRAFT CABIN SIMULATORS  
 BT #SIMULATORS  
 RT ASTRONAUT TRAINING  
 CENTRIFUGES  
 CONTROL SIMULATION  
 FLIGHT SIMULATION  
 FLIGHT TRAINING  
 LANDING SIMULATION  
 LUNAR ORBIT AND LANDING SIMULATORS  
 MISSILE SIMULATORS  
 PILOT TRAINING  
 SPACE FLIGHT TRAINING  
 #TRAJECTORIES  
 1901 1904 3006 3009  
 RT ABORT TRAJECTORIES  
 ASCENT TRAJECTORIES  
 BALLISTIC TRAJECTORIES  
 CIRCULUNAR TRAJECTORIES  
 DESCENT TRAJECTORIES  
 EARTH-MARS TRAJECTORIES  
 EARTH-MERCURY TRAJECTORIES  
 EARTH-MOON TRAJECTORIES  
 EARTH-VENUS TRAJECTORIES  
 ELECTRON TRAJECTORIES  
 HYPERBOLIC TRAJECTORIES  
 INTERPLANETARY TRAJECTORIES  
 LUNAR TRAJECTORIES  
 MIDCOURSE TRAJECTORIES  
 MISSILE TRAJECTORIES  
 MOLECULAR TRAJECTORIES  
 MOON-EARTH TRAJECTORIES  
 PARTICLE TRAJECTORIES  
 REENTRY TRAJECTORIES  
 RENDEZVOUS TRAJECTORIES  
 ROUND TRIP TRAJECTORIES  
 SPACECRAFT TRAJECTORIES  
 SPINNING UNGUIDED ROCKET TRAJECTORY  
 UNDERWATER TRAJECTORIES  
 RT APEXES  
 BALLISTICS  
 CURVES  
 DOWNRANGE  
 #EQUATIONS OF MOTION  
 FLIGHT  
 FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 FLIGHT PATHS  
 FLIGHT TIME  
 GREAT CIRCLES  
 #MISSILES  
 #ORBITS  
 ORDNANCE  
 PARABOLIC FLIGHT  
 PATHS  
 ROCKET FLIGHT  
 #SPACE FLIGHT  
 TRANSFER ORBITS  
 TRAJECTORY ANALYSIS  
 1904 3006 3110  
 RT ANALYZING  
 ASTRODYNAMICS  
 BALLISTICS  
 CAPTURE EFFECT  
 CELESTIAL MECHANICS  
 #EQUATIONS OF MOTION  
 IMPACT PREDICTION  
 MATHEMATICAL MODELS  
 NUMERICAL ANALYSIS  
 ORBITAL MECHANICS  
 PREFLIGHT ANALYSIS  
 SYSTEMS ANALYSIS  
 TRAJECTORY CONTROL  
 TRAJECTORY MEASUREMENT  
 TRAJECTORY CONTROL  
 1904 2102 3006 3110  
 UP RANGE CONTROL  
 NT TRAJECTORY OPTIMIZATION  
 RT #ATTITUDE CONTROL  
 CONTROL  
 DRIFT RATE  
 #GUIDANCE (MOTION)  
 HOMING DEVICES  
 LANDING SITES  
 OPTIMAL CONTROL  
 #OPTIMIZATION  
 POST-BOOST PROPULSION SYSTEM  
 RANGE SAFETY  
 THRUST PROGRAMMING  
 TRAJECTORY ANALYSIS  
 TRAJECTORY MEASUREMENT

TRAJECTORY MEASUREMENT  
 1406 1410 1904 2102 3006  
 RT BALLISTIC CAMERAS  
 BALLISTICS  
 FLIGHT MECHANICS  
 MEASUREMENT  
 TELEMETRY  
 TRACKING RADAR  
 TRAJECTORY ANALYSIS  
 TRAJECTORY CONTROL  
 TRAJECTORY OPTIMIZATION  
 TRAJECTORY OPTIMIZATION  
 1904 2102 3006  
 RT #OPTIMIZATION  
 TRAJECTORY CONTROL  
 RT FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 TRAJECTORY MEASUREMENT  
 TRANQUILIZERS  
 0403 0405 0408  
 BT #DRUGS  
 TRANSALL C-160 AIRCRAFT  
 USE C-160 AIRCRAFT  
 TRANSCIEVERS  
 USE TRANSMITTER RECEIVERS  
 TRANSCENDENTAL FUNCTIONS  
 1902  
 NT COSINE SERIES  
 EXPONENTIAL FUNCTIONS  
 LOGARITHMS  
 PERIODIC FUNCTIONS  
 SINE SERIES  
 TANGENTS  
 TRIGONOMETRIC FUNCTIONS  
 BT #FUNCTIONS (MATHEMATICS)  
 TRANSCONTINENTAL SYSTEMS  
 0702 3401 3406  
 RT #CONTINENTS  
 #TELECOMMUNICATION  
 #TRANSPORTATION  
 #TRANSDUCERS  
 1413  
 UP VIBRATION PICKUPS  
 NT BOURDON TUBES  
 DIGITAL TRANSDUCERS  
 ELECTROACOUSTIC TRANSDUCERS  
 ELECTRONIC TRANSDUCERS  
 HYDROPHONES  
 IMAGE TRANSDUCERS  
 LOUDSPEAKERS  
 MAGNETIC TRANSDUCERS  
 MICROPHONES  
 MODE TRANSFORMERS  
 PIEZOELECTRIC GAGES  
 PIEZOELECTRIC TRANSDUCERS  
 PIEZORESISTIVE TRANSDUCERS  
 PRESSURE SENSORS  
 QUARTZ TRANSDUCERS  
 SOUND TRANSDUCERS  
 THERMOPILES  
 TORQUERS  
 ULTRASONIC WAVE TRANSDUCERS  
 RT CONTROL EQUIPMENT  
 CONVERTERS  
 DATA CONVERTERS  
 DETECTORS  
 ENERGY CONVERSION EFFICIENCY  
 EXTENSOMETERS  
 FORM FACTORS  
 INSTRUMENT RECEIVERS  
 INSTRUMENT TRANSMITTERS  
 INSTRUMENTS  
 #MEASURING INSTRUMENTS  
 METEOROLOGICAL INSTRUMENTS  
 PHOTOELECTRIC CELLS  
 PROBES  
 #RECORDING INSTRUMENTS  
 REMOTE SENSORS  
 SENSORS  
 STRAIN GAGES  
 TEMPERATURE MEASURING INSTRUMENTS  
 VIBRATION METERS  
 TRANSEARTH INJECTION  
 2102  
 BT #INJECTION  
 RT INJECTION GUIDANCE  
 MIDCOURSE GUIDANCE  
 ORBITAL MECHANICS  
 TRANSFER ORBITS  
 TRANSQUATORIAL PROPAGATION  
 0702 0710 2402  
 BT ELECTROMAGNETIC WAVE TRANSMISSION

## TRANSFER INTEGRALS

RADIO TRANSMISSION  
 #SIGNAL TRANSMISSION  
 #TRANSMISSION  
 WAVE PROPAGATION  
 RT EQUATORS  
 F 2 REGION  
 PROPAGATION  
 TRANSFER  
 USE TRANSFERRING  
 TRANSFER FUNCTIONS  
 1003 1902  
 RT AMPLIFICATION  
 #AUTOMATIC CONTROL  
 BANDWIDTH  
 COUPLING COEFFICIENTS  
 DAMPING  
 #DYNAMIC CHARACTERISTICS  
 DYNAMIC RESPONSE  
 #FEEDBACK  
 FEEDBACK CIRCUITS  
 HIGH GAIN  
 IMPEDANCE MATCHING  
 LOGARITHMIC RECEIVERS  
 NEGATIVE FEEDBACK  
 NONLINEAR FEEDBACK  
 NYQUIST DIAGRAM  
 OUTPUT  
 POSITIVE FEEDBACK  
 SELF OSCILLATION  
 #SENSITIVITY  
 SYSTEMS  
 TIME CONSTANT  
 TRANSIENT RESPONSE  
 TRANSFER OF TRAINING  
 0408 0502 0504  
 RT #LEARNING  
 BT ABILITIES  
 #EDUCATION  
 GENERALIZATION (PSYCHOLOGY)  
 TRANSFER ORBITS  
 1904 3004 3006 3007  
 UP HOFMANN TRAJECTORIES  
 HOFMANN TRANSFER ORBITS  
 IMPULSE TRANSFER ORBITS  
 ORBITAL TRANSFER  
 NT INTERPLANETARY TRANSFER ORBITS  
 BT ELLIPTICAL ORBITS  
 #ORBITS  
 SPACECRAFT ORBITS  
 RT CIRCULUNAR TRAJECTORIES  
 EARTH-MARS TRAJECTORIES  
 EARTH-MERCURY TRAJECTORIES  
 EARTH-MOON TRAJECTORIES  
 EARTH ORBITAL RENDEZVOUS  
 EARTH ORBITS  
 INTERPLANETARY TRAJECTORIES  
 LUNAR ORBITS  
 LUNAR TRAJECTORIES  
 ORBITAL LAUNCHING  
 ORBITAL MECHANICS  
 PARKING ORBITS  
 PLANETARY ORBITS  
 SATELLITE ORBITS  
 SOLAR ORBITS  
 SPACE RENDEZVOUS  
 SPACECRAFT DOCKING  
 #TRAJECTORIES  
 TRANSEARTH INJECTION  
 TRANSFERRING  
 TRANSFER INJECTION  
 TRANSFER TUNNELS  
 3104  
 BT PASSAGEWAYS  
 RT ENTRANCES  
 TUNNELS  
 TRANSFERRING  
 3009 3406 3407 3408  
 UP TRANSFER  
 RT CHARGE TRANSFER  
 ELECTRON TRANSFER  
 ENERGY TRANSFER  
 #EXCHANGING  
 HEAT TRANSFER  
 MASS TRANSFER  
 MATERIALS HANDLING  
 MOMENTUM TRANSFER  
 SHIFT  
 TECHNOLOGY TRANSFER  
 TRANSFER ORBITS  
 #TRANSPORTATION  
 TRANSFORM INTEGRALS  
 USE INTEGRAL TRANSFORMATIONS

# TRANSFORMATION TENSORS

## TRANSFORMATION TENSORS

### USE TENSORS

#### TRANSFORMATIONS

0404 1704 1902 2311 3407

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

#### RT PUJITA METHOD

##### #FUNCTIONS (MATHEMATICS)

##### ORDER-DISORDER TRANSFORMATIONS

##### #PHASE TRANSFORMATIONS

##### TRANSFORMATIONS (MATHEMATICS)

#### TRANSFORMATIONS (MATHEMATICS)

1902 1903

#### UP TRANSFORMS

#### BT COORDINATE TRANSFORMATIONS

##### POUQUIER-BESSEL TRANSFORMATION

##### POUQUIER-BESSEL TRANSFORMATIONS

##### LAPLACE TRANSFORMATION

#### BT PUJITA METHOD

##### #FUNCTIONS (MATHEMATICS)

##### GAUGE INVARIANCE

##### RACAH COEFFICIENT

##### TRANSFORMATIONS

#### TRANSFORMERS

0302 0904

#### BT INSTRUMENT TRANSFORMERS

##### MODE TRANSFORMERS

#### BT #AMPLIFIERS

##### BALLASTS (IMPEDANCES)

##### CIRCUIT PROTECTION

##### CONVERTERS

##### #ELECTRIC COILS

##### #ELECTRIC FILTERS

##### ELECTRIC MOTORS

##### ELECTRIC REACTORS

##### ELECTRICAL GROUNDING

##### INDUCTANCE

##### MAGNET COILS

##### MAGNETIC CIRCUITS

##### MAGNETIC CORES

##### #OSCILLATORS

##### PHASE CONTROL

##### PLASMA CONTROL

##### POWER SUPPLY CIRCUITS

##### RESOLVERS

##### SATURABLE REACTORS

##### SOLID STATE DEVICES

##### TOROIDS

##### VOLTAGE REGULATORS

#### TRANSFORMS

##### USE TRANSFORMATIONS (MATHEMATICS)

#### TRANSFUSION

0401 0405

#### BT BLOOD

#### TRANSIENT HEATING

3303 3304

#### BT PULSE HEATING

##### SHOCK HEATING

#### BT #HEATING

#### BT AERODYNAMIC HEATING

#### TRANSIENT LOADS

0101 3202 3203

(LIMITED TO FORCE LOADS)

#### BT BLAST LOADS

##### GUST LOADS

##### IMPACT LOADS

##### LANDING LOADS

##### SHOCK LOADS

#### BT DYNAMIC LOADS

##### #LOADS (FORCES)

#### BT AERODYNAMIC LOADS

##### CYCLIC LOADS

##### RANDOM LOADS

##### TRANSIENT PRESSURES

#### TRANSIENT OSCILLATIONS

0710 1002 2308 2312 2402

#### BT #OSCILLATIONS

#### RT DAMPING

##### ELECTRON OSCILLATIONS

##### LASERS

##### MASERS

##### #STIMULATED EMISSION DEVICES

##### TRANSIENT RESPONSE

##### TRANSVERSE OSCILLATION

##### VIBRATIONAL SPECTRA

#### TRANSIENT PRESSURES

1202 1203 2311

#### BT #PRESSURE

#### RT MASS FLOW RATE

##### PRESSURE SENSORS

##### TRANSIENT LOADS

## TRANSIENT RESPONSE

### TRANSIENT REACTOR TEST FACILITY

1106 1108 2203 2204 3404

#### UP TREAT (TEST FACILITY)

#### BT #TEST FACILITIES

#### RT NUCLEAR RESEARCH AND TEST REACTORS

##### REACTOR SAFETY

##### SWAP

### TRANSIENT RESPONSE

0905 1809 2309 2402 3203 3304

#### BT #DYNAMIC CHARACTERISTICS

##### DYNAMIC RESPONSE

##### #RESPONSES

#### RT AMPLIFICATION

##### COMPENSATION

##### DAMPING

##### DYNAMIC STABILITY

##### #IMPEDANCE

##### PRESSURE SENSORS

##### RESONANT FREQUENCIES

##### RESPONSE BIAS

##### #SENSITIVITY

##### STROKING TESTS

##### TIME CONSTANT

##### TRANSFER FUNCTIONS

##### TRANSIENT OSCILLATIONS

##### TRANSIENT PRESSURES

### TRANSIENTS (SURGES)

#### USE SURGES

### TRANSISTOR AMPLIFIERS

0701 0905 0906 2402

#### BT #AMPLIFIERS

##### #ELECTRONIC EQUIPMENT

##### SEMICONDUCTOR DEVICES

##### SOLID STATE DEVICES

#### RT CURRENT AMPLIFIERS

##### DIFFERENTIAL AMPLIFIERS

##### FEEDBACK AMPLIFIERS

##### INTERMEDIATE FREQUENCY AMPLIFIERS

##### POWER AMPLIFIERS

##### PREAMPLIFIERS

##### TRANSISTOR CIRCUITS

##### TRANSISTORS

### TRANSISTOR CIRCUITS

0902 0906 1001

#### BT #CIRCUITS

#### RT ELECTRONICS

##### INTEGRATED CIRCUITS

##### LOGIC CIRCUITS

##### MICROELECTRONICS

##### PRINTED CIRCUITS

##### TRANSISTOR AMPLIFIERS

##### TRANSISTOR LOGIC

### TRANSISTOR LOGIC

0802 0906 1001

#### RT BOOLEAN ALGEBRA

##### LOGIC CIRCUITS

##### LOGIC DESIGN

##### THRESHOLD LOGIC

##### TRANSISTOR CIRCUITS

### TRANSISTORS

0906

#### NT FIELD EFFECT TRANSISTORS

##### JUNCTION TRANSISTORS

##### PHOTOTRANSISTORS

##### SILICON TRANSISTORS

#### BT #ELECTRONIC EQUIPMENT

##### SEMICONDUCTOR DEVICES

##### SOLID STATE DEVICES

#### RT GERMANIUM DIODES

##### #MINIATURIZATION

##### PENTODES

##### TETRODES

##### TRANSISTOR AMPLIFIERS

##### TRIODES

### TRANSIT

1412 1901 3001 3003

(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

#### RT #OCCULTATION

##### TRANSIT SATELLITES

##### TRANSITS

### TRANSIT 1A SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

## NASA THESAURUS (ALPHABETICAL LISTING)

### TRANSIT 2A SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

### TRANSIT 4A SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

### TRANSIT 5A SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

### TRANSIT ATTITUDE CONTROL SATELLITE

2103 2104 3107

#### UP TRAC SATELLITE

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### #UNMANNED SPACECRAFT

#### RT SATELLITE ATTITUDE CONTROL

##### TRANSIT 4B SATELLITE

### TRANSIT 1B SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

### TRANSIT 3B SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

### TRANSIT 4B SATELLITE

2103 2104 3107

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### TRANSIT SATELLITES

##### #UNMANNED SPACECRAFT

#### RT TRANSIT ATTITUDE CONTROL SATELLITE

### TRANSIT SATELLITES

2103 2104 3107 3409

#### NT TRANSIT 1A SATELLITE

##### TRANSIT 2A SATELLITE

##### TRANSIT 4A SATELLITE

##### TRANSIT 5A SATELLITE

##### TRANSIT 1B SATELLITE

##### TRANSIT 3B SATELLITE

##### TRANSIT 4B SATELLITE

#### BT ARTIFICIAL SATELLITES

##### EARTH SATELLITES

##### NAVIGATION SATELLITES

##### #SATELLITES

##### #UNMANNED SPACECRAFT

#### RT TRANSIT

#### TRANSIT TIME

1901 3001 3003

(NOT LIMITED TO ASTRONOMICAL TIMES OF

TRANSIT)

#### BT #TIME

##### FLIGHT TIME

##### MOTION

#### TRANSITION

1704 2311 3407

(USE OF A MORE SPECIFIC TERM IS

# **NASA THESAURUS (ALPHABETICAL LISTING)**

BT #FLUID FLOW  
 GAS FLOW  
 MOLECULAR FLOW  
 RT BOUNDARY LAYER TRANSITION  
 FREE MOLECULAR FLOW  
 RAREFIED GAS DYNAMICS  
 SLIP FLOW  
 TRANSITION POINTS  
 TRANSITION LAYERS  
 0101 1202 1203  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT BOUNDARY LAYER TRANSITION  
 INTERLAYERS  
 LAMINAR FLOW  
 PLASMA LAYERS  
 SHEAR LAYERS  
 SHOCK LAYERS  
 SHOCK WAVES  
 SURFACE LAYERS  
 TURBULENT FLOW  
 TRANSITION METALS  
 0603 1703  
 NT CADMIUM  
 CHROMIUM  
 COBALT  
 COBALT ISOTOPES  
 COBALT 58  
 COBALT 60  
 HAFNIUM  
 IRIIDIUM  
 IRON  
 IRON ISOTOPES  
 IRON 57  
 IRON 59  
 MANGANESE  
 MANGANESE ISOTOPES  
 MOLYBDENUM  
 NICKEL  
 NIOBIUM  
 NIOBIUM ISOTOPES  
 NIOBIUM 95  
 OSMIUM  
 OSMIUM ISOTOPES  
 PALLADIUM  
 PLATINUM  
 PLATINUM BLACK  
 PLATINUM ISOTOPES  
 REFRACTORY METALS  
 RHEINIUM  
 RHEINIUM ISOTOPES  
 RHODIUM  
 RHODIUM ISOTOPES  
 SCANDIUM  
 SCANDIUM ISOTOPES  
 TANTALUM  
 TECHNETIUM  
 TECHNETIUM ISOTOPES  
 TITANIUM  
 TUNGSTEN  
 TUNGSTEN ISOTOPES  
 VANADIUM  
 YTTRIUM  
 ZIRCONIUM  
 ZIRCONIUM ISOTOPES  
 ZIRCONIUM 95  
 BT #METALS  
 RT ACTINIDE SERIES  
 PALLADIUM COMPOUNDS  
 RARE EARTH ELEMENTS  
 RUTHENIUM COMPOUNDS  
 TRANSURANIUM ELEMENTS  
 TRANSITION POINTS  
 0101 1202 1203  
 RT BOUNDARY LAYER TRANSITION  
 EQUILIBRIUM  
 KNUDSEN FLOW  
 PHASE DIAGRAMS  
 REYNOLDS NUMBER  
 TRANSITION FLOW  
 TRANSITION PROBABILITIES  
 1902 1905 2309 2403  
 RT ELECTRON TRANSITIONS  
 #EXCITATION  
 FERMI SURFACES  
 NUCLEAR CAPTURE  
 PROBABILITY THEORY  
 #SPECTRA  
 TRANSITION TEMPERATURE  
 2302 2303 2304 2603 3304  
 BT #TEMPERATURE

RT LIQUID PHASES  
 MELTING POINTS  
 PHASE DIAGRAMS  
 #PHASE TRANSFORMATIONS  
 SOLIDIFICATION  
 SUPERCONDUCTIVITY  
 TRANSITS  
 1402 1406 2310  
 (EXCLUDES PARTIAL OR TOTAL OCCULTATION  
 OF ONE BODY BY ANOTHER)  
 NT CINETHODOLITES  
 THEODOLITES  
 BT #MEASURING INSTRUMENTS  
 #OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 RT COMPASSES  
 SEXTANTS  
 TRANSIT  
 TRANSLATING  
 0702 0802 2308 3405 3407  
 NT MACHINE TRANSLATION  
 RT DECODING  
 DOCUMENTATION  
 INTERPRETATION  
 #LANGUAGES  
 TECHNICAL WRITING  
 TRANSLATORS  
 #TRANSLATIONAL MOTION  
 1901 1904 3001 3006 3009  
 NT THREE DIMENSIONAL FLOW  
 THREE DIMENSIONAL MOTION  
 RT MOTION  
 RACKS (GEARS)  
 RIGID STRUCTURES  
 TRANSLATORS  
 0802 1902  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT #COMPUTER PROGRAMS  
 DECODERS  
 DIGITAL TO VOICE TRANSLATORS  
 LANGUAGE PROGRAMMING  
 REPEATERS  
 TRANSLATING  
 TRANSLUCENCE  
 0710 2306 2310 3408  
 RT ELECTROMAGNETIC PROPERTIES  
 LIGHT TRANSMISSION  
 OPACITY  
 OPTICAL DENSITY  
 TRANSMISSIVITY  
 TRANSPARENCE  
 TRANSLUNAR INJECTION  
 2102  
 BT #INJECTION  
 RT INJECTION GUIDANCE  
 MIDCOURSE GUIDANCE  
 ORBITAL MECHANICS  
 TRANSFER ORBITS  
 TRANSLUNAR SPACE  
 USE INTERPLANETARY SPACE  
 #TRANSMISSION  
 0702 1504 2311 3407  
 UP COAXIAL TRANSMISSION  
 NT AERODYNAMIC HEAT TRANSFER  
 AUTOMATIC PICTURE TRANSMISSION  
 CONDUCTIVE HEAT TRANSFER  
 CONVECTIVE HEAT TRANSFER  
 DATA TRANSMISSION  
 DIFFRACTION PROPAGATION  
 DOUBLE SIDEBAND TRANSMISSION  
 ELECTRIC POWER TRANSMISSION  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 GROUND WAVE PROPAGATION  
 HEAT TRANSFER  
 HEAT TRANSMISSION  
 HYPERSONIC HEAT TRANSFER  
 IONOSPHERIC P-SCATTER PROPAGATION  
 IONOSPHERIC PROPAGATION  
 LAMINAR HEAT TRANSFER  
 LIGHT SCATTERING  
 LIGHT TRANSMISSION  
 MICROWAVE TRANSMISSION  
 MULTIPATH TRANSMISSION  
 RADAR TRANSMISSION  
 RADIATIVE HEAT TRANSFER  
 RADIO TRANSMISSION  
 SATELLITE TRANSMISSION  
 SCATTER PROPAGATION  
 SELF PROPAGATION  
 SHOCK WAVE PROPAGATION

## **#TRANSMISSION LINES**

SHORT WAVE RADIO TRANSMISSION  
 SINGLE SIDEBAND TRANSMISSION  
 SOUND TRANSMISSION  
 STRESS PROPAGATION  
 SUPERSONIC HEAT TRANSFER  
 TELEVISION TRANSMISSION  
 TRANSEQUATORIAL PROPAGATION  
 TURBULENT HEAT TRANSFER  
 WAVE PROPAGATION  
 RT ABSORPTANCE  
 ATMOSPHERIC ATTENUATION  
 #ATTENUATION  
 BROADCASTING  
 CONDUCTION  
 DIFFRACTION  
 ELECTROMAGNETIC ABSORPTION  
 #ELECTROMAGNETIC RADIATION  
 OPTICAL FILTERS  
 OUTPUT  
 PROPAGATION  
 REFLECTION  
 #REFRACTION  
 #TELECOMMUNICATION  
 #TRANSMISSION LINES  
 TRANSMISSION LOSS  
 TRANSMISSIVITY  
 TRANSMITTANCE  
 TRANSMISSION CIRCUITS  
 0702 0904 0905  
 BT #CIRCUITS  
 RT CIRCUIT PROTECTION  
 ELECTRIC POWER TRANSMISSION  
 SIGNAL STABILIZATION  
 STRIP TRANSMISSION LINES  
 #TELECOMMUNICATION  
 #TRANSMISSION LINES  
 TRANSMISSION EFFICIENCY  
 0702 0710 2402  
 BT #EFFICIENCY  
 RT ATTENUATION COEFFICIENTS  
 DATA TRANSMISSION  
 ELECTROMAGNETIC WAVE TRANSMISSION  
 OPACITY  
 POWER EFFICIENCY  
 #SIGNAL TRANSMISSION  
 TRANSMISSION LOSS  
 TRANSMITTANCE  
 TRANSMISSION FLUIDS  
 1503 1504  
 RT FLUID TRANSMISSION LINES  
 FLUIDS  
 HYDRAULIC FLUIDS  
 #TRANSMISSION LINES  
 0702 0710 2402  
 UP TRUNKS (LINES)  
 NT BEAN WAVEGUIDES  
 COAXIAL CABLES  
 COMMUNICATION CABLES  
 FLUID TRANSMISSION LINES  
 PLASMA GUIDES  
 POWER LINES  
 STRIP TRANSMISSION LINES  
 SUBMARINE CABLES  
 WAVEGUIDES  
 RT ACOUSTIC DELAY LINES  
 ANTENNA COUPLERS  
 ANTENNA FEEDS  
 BACKWARD WAVES  
 CABLES  
 CIRCUIT PROTECTION  
 #CIRCUITS  
 DELTA ANTENNAS  
 DISTRIBUTED AMPLIFIERS  
 ELECTRIC CONDUCTORS  
 #ELECTRIC CURRENT  
 ELECTRIC POWER TRANSMISSION  
 ELECTRIC WIRE  
 ELECTRICAL ENGINEERING  
 ELECTRIFICATION  
 HARNESSSES  
 IMPEDANCE MATCHING  
 INSULATORS  
 LINES  
 MODE TRANSFORMERS  
 NETWORKS  
 NONRESONANCE  
 SMITH CHART  
 STANDING WAVE RATIOS  
 #TELECOMMUNICATION  
 #TRANSMISSION  
 TRANSMISSION CIRCUITS  
 TRANSMISSION LOSS

## TRANSMISSION LOSS

WIRING  
TRANSMISSION LOSS  
0702 0703 0710 2402  
RT #ATTENUATION  
CURRENT REGULATORS  
ELECTRIC POWER TRANSMISSION  
INSERTION  
INSERTION LOSS  
LOSSES  
SILENCE  
#TRANSMISSION  
TRANSMISSION EFFICIENCY  
#TRANSMISSION LINES  
VOLTAGE REGULATORS  
WAVE DISPERSION  
TRANSMISSIVITY  
0710 2306 2310 2402  
RT ABSORPTANCE  
ABSORPTIVITY  
DENSITY (MASS/VOLUME)  
ELECTROMAGNETIC PROPERTIES  
LIGHT SCATTERING  
OPACITY  
PHYSICAL PROPERTIES  
TRANSLUCENCE  
#TRANSMISSION  
TRANSMITTANCE  
TRANSPARENCE  
TRANSPONDERS  
VISIBILITY  
TRANSMISSOMETERS  
0905 1406 2402  
BT #MEASURING INSTRUMENTS  
#OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
RT DENSITOMETERS  
PHOTOMETERS  
RADIANCE  
TRANSMITTANCE  
TRANSMITTANCE  
0710 2306 2402  
RT ABSORPTANCE  
ATTENUATION COEFFICIENTS  
DENSITY (MASS/VOLUME)  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
LIGHT (VISIBLE RADIATION)  
OPTICAL DENSITY  
PHOTOMETRY  
RAY TRACING  
REFLECTANCE  
#SCATTERING  
#TRANSMISSION  
TRANSMISSION EFFICIENCY  
TRANSMISSIVITY  
TRANSMISSOMETERS  
TRANSPARENCE  
TRANSMITTER RECEIVERS  
0701 0705 0905  
UP TRANSCIVERS  
BT #COMMUNICATION EQUIPMENT  
#RADIO EQUIPMENT  
RADIO RECEIVERS  
RADIO TRANSMITTERS  
#TRANSMITTERS  
RT INTERROGATION  
TRANSPONDERS  
#TRANSMITTERS  
0701 0904  
UP MULTICHANNEL TRANSMITTERS  
SENDERS  
RT ENDORADIOSONDES  
INSTRUMENT TRANSMITTERS  
IONOSONDES  
OMNIDIRECTIONAL RADIO RANGES  
RADAR TRANSMITTERS  
RADIO BEACONS  
RADIO TRANSMITTERS  
RADIO TELEPHONES  
RADIOSONDES  
RADIOTELEPHONES  
RAWINSONDES  
REPEATERS  
SELF CALIBRATING OMNIRANGE  
SONOBOYS  
TRANSMITTER RECEIVERS  
RT ANTENNAS  
#ATTENUATION  
DUPLIXERS  
INSTRUMENTS  
MICROPHONES  
RECEIVERS

SIGNAL ENCODING  
#TELECOMMUNICATION  
TELEVISION TRANSMISSION  
TRANSPONDERS  
TRANSMUTATION  
0603  
RT NEUTRON IRRADIATION  
#NUCLEAR REACTIONS  
RADIOGENIC MATERIALS  
TRANSOCEANIC COMMUNICATION  
0702 3404  
BT #TELECOMMUNICATION  
TRANSOCEANIC SYSTEMS  
RT FACSIMILE COMMUNICATION  
RADIO COMMUNICATION  
RELAY SATELLITES  
TRANSOCEANIC SYSTEMS  
0702 3401 3406  
RT TRANSOCEANIC COMMUNICATION  
RT INTERCONTINENTAL BALLISTIC MISSILES  
#TELECOMMUNICATION  
#TRANSPORTATION  
WORLD DATA CENTERS  
TRANSONIC AIRCRAFT  
USE #SUPERSONIC AIRCRAFT  
TRANSONIC COMPRESSORS  
1202 1203 2801 2805  
BT COMPRESSORS  
RT SUPERSONIC COMPRESSORS  
TRANSONIC FLOW  
TURBOCOMPRESSORS  
TRANSONIC FLIGHT  
0101 0205  
RT FLIGHT  
ROCKET FLIGHT  
SONIC BOOMS  
SUPERSONIC FLIGHT  
TRANSONIC FLOW  
TRANSONIC FLOW  
0101 1202 1203  
UP SONIC FLOW  
TRANSONICS  
RT AERODYNAMICS  
COMPRESSIBILITY EFFECTS  
COMPRESSIBLE FLOW  
FLOW VELOCITY  
GAS FLOW  
NOZZLE FLOW  
SHOCK WAVES  
SONIC NOZZLES  
SUBSONIC FLOW  
SUPERSONIC FLOW  
TRANSONIC COMPRESSORS  
TRANSONIC FLIGHT  
TRANSONIC NOZZLES  
TRANSONIC WIND TUNNELS  
WIND TUNNELS  
TRANSONIC FLUTTER  
0101 1202 1203  
BT FLUTTER  
SELF INDUCED VIBRATION  
STRUCTURAL VIBRATION  
#VIBRATION  
RT MISSILE VIBRATION  
SUBSONIC FLUTTER  
SUPERSONIC FLUTTER  
TRANSONIC INLETS  
USE SUPERSONIC INLETS  
TRANSONIC NOZZLES  
1201 1202 1203 2806  
BT CONICAL NOZZLES  
CONVERGENT-DIVERGENT NOZZLES  
HYPERSONIC NOZZLES  
NOZZLES  
SONIC NOZZLES  
SUPERSONIC NOZZLES  
TRANSONIC FLOW  
WIND TUNNEL NOZZLES  
TRANSONIC SPEED  
0101 0201 1202 1203  
BT #RATES (PER TIME)  
VELOCITY  
RT ACOUSTIC VELOCITY  
SUBSONIC SPEED  
SUPERSONIC SPEEDS  
TRANSONIC TURBINES  
USE SUPERSONIC TURBINES  
TRANSONIC WIND TUNNELS  
1110 1202 1203  
BT #TEST FACILITIES  
WIND TUNNELS  
RT BLOWDOWN WIND TUNNELS

## NASA THESAURUS (ALPHABETICAL LISTING)

SLOTTED WIND TUNNELS  
SUBSONIC WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
TRANSONIC FLOW  
WING FLOW METHOD TESTS  
TRANSONICS  
USE TRANSONIC FLOW  
TRANSPARENCE  
2306 2502 3408  
UP TRANSPARENT MATERIALS  
BT ABSORPTANCE  
ABSORPTIVITY  
ATMOSPHERIC OPTICS  
CLARITY  
DENSITY (MASS/VOLUME)  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC PROPERTIES  
HAZE  
LIGHT TRANSMISSION  
OPACITY  
OPTICAL DENSITY  
RADOME MATERIALS  
TRANSLUCENCE  
TRANSMISSIVITY  
TRANSMITTANCE  
TURBIDITY  
TRANSPARENT MATERIALS  
USE TRANSPARENCE  
TRANSPARATION  
0404 0602 1202 1203 2405  
UP FLUID TRANSPARATION  
BT EVAPORATION  
#PHASE TRANSFORMATIONS  
VAPORIZING  
RT #COOLING  
COOLING SYSTEMS  
EVANESCENCE  
EVOLUTION (LIBERATION)  
GAS EVOLUTION  
MASS TRANSFER  
MOLECULAR FLOW  
OUTGASSING  
PERMEATING  
PERSPIRATION  
TEMPERATURE CONTROL  
TRANSPARATION COOLING  
USE SWEAT COOLING  
TRANSPARATION  
0404 0405 0408  
RT CLINICAL MEDICINE  
SURGERY  
TRANSPONDER CONTROL GROUP  
0702 0802 0905 1003  
UP TCG (TRACKING)  
RT RADAR TRACKING  
SATELLITE TRACKING  
SPACECRAFT TRACKING  
TELEMETRY  
TRANSPONDERS  
TRANSPONDERS  
0701 0702 0710 0905  
UP RESPONDERS  
BT #RADIO EQUIPMENT  
RT AIR TRAFFIC CONTROL  
INTERROGATION  
RADAR BEACONS  
#RADAR EQUIPMENT  
RADIO RECEIVERS  
RADIO TRANSMITTERS  
TRANSMISSIVITY  
TRANSMITTER RECEIVERS  
#TRANSMITTERS  
TRANSPONDER CONTROL GROUP  
#TRANSPORT AIRCRAFT  
0201 0204 0207  
RT A-300 AIRCRAFT  
AN-2 AIRCRAFT  
AN-22 AIRCRAFT  
AN-24 AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
AW 650 AIRCRAFT  
BAC 111 AIRCRAFT  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 727 AIRCRAFT  
BOEING 733 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 747 AIRCRAFT  
BOEING 2707 AIRCRAFT  
C-2 AIRCRAFT  
C-9 AIRCRAFT  
C-46 AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

C-47 AIRCRAFT  
C-54 AIRCRAFT  
C-97 AIRCRAFT  
C-118 AIRCRAFT  
C-119 AIRCRAFT  
C-121 AIRCRAFT  
C-123 AIRCRAFT  
C-124 AIRCRAFT  
C-130 AIRCRAFT  
C-131 AIRCRAFT  
C-133 AIRCRAFT  
C-135 AIRCRAFT  
C-141 AIRCRAFT  
C-160 AIRCRAFT  
CARGO AIRCRAFT  
CH-3 HELICOPTER  
CH-34 HELICOPTER  
CH-46 HELICOPTER  
CH-47 HELICOPTER  
CH-54 HELICOPTER  
CL-44 AIRCRAFT  
CL-84 AIRCRAFT  
CL-823 AIRCRAFT  
CONCORDE AIRCRAFT  
CONVAIR 880 AIRCRAFT  
DC 3 AIRCRAFT  
DC 8 AIRCRAFT  
DC 9 AIRCRAFT  
DC 10 AIRCRAFT  
DH 121 AIRCRAFT  
DH 125 AIRCRAFT  
DHC 4 AIRCRAFT  
DHC 5 AIRCRAFT  
DINFIA FA AIRCRAFT  
DO-31 AIRCRAFT  
EC-121 AIRCRAFT  
ELECTRA AIRCRAFT  
F-28 TRANSPORT AIRCRAFT  
FIAT 7002 HELICOPTER  
G-1 AIRCRAFT  
G-222 AIRCRAFT  
H-19 HELICOPTER  
H-53 HELICOPTER  
H-56 HELICOPTER  
HC-3 HELICOPTER  
HFB-320 AIRCRAFT  
IL-14 AIRCRAFT  
L-1011 AIRCRAFT  
L-1649 AIRCRAFT  
LIGHT INFRATHREATER TRANSPORT  
LOCKHEED MODEL 18 AIRCRAFT  
MH-260 AIRCRAFT  
MH-262 AIRCRAFT  
MYSTERE 20 AIRCRAFT  
N-2501 AIRCRAFT  
P-166 AIRCRAFT  
POTEZ 840 AIRCRAFT  
RF-1 AIRCRAFT  
S-58 HELICOPTER  
S-61 HELICOPTER  
SA-330 HELICOPTER  
SA-3210 HELICOPTER  
SC-5 AIRCRAFT  
SC-7 AIRCRAFT  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
SH-34 HELICOPTER  
SHORT HAUL AIRCRAFT  
SI-204 AIRCRAFT  
SIAT 311 AIRCRAFT  
TU-124 AIRCRAFT  
TU-144 AIRCRAFT  
UH-34 HELICOPTER  
VC-10 AIRCRAFT  
VISCOUNT AIRCRAFT  
XC-142 AIRCRAFT  
YS-11 AIRCRAFT  
RT AIR TRANSPORTATION  
AIRCRAFT  
#COMMERCIAL AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
#JET AIRCRAFT  
LIGHT AIRCRAFT  
LOW WING AIRCRAFT  
MILITARY AIRCRAFT  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SUBSONIC AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TRANSPORT VEHICLES  
TURBOPAN AIRCRAFT  
TURBOPROP AIRCRAFT

UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT  
TRANSPORT COEFFICIENTS  
USE #COEFFICIENTS  
#TRANSPORT PROPERTIES  
TRANSPORT EQUATION  
USE BOLTZMANN TRANSPORT EQUATION  
#TRANSPORT PROPERTIES  
0603 1203 2403 3304 3408  
UF TRANSPORT COEFFICIENTS  
NT ATMOSPHERIC CONDUCTIVITY  
CARRIER MOBILITY  
EDDY VISCOSITY  
ELECTRICAL RESISTIVITY  
ELECTRON MOBILITY  
GAS VISCOSITY  
GASEOUS DIFFUSION  
GASEOUS SELF-DIFFUSION  
HOLE MOBILITY  
IONIC MOBILITY  
IONOSPHERIC CONDUCTIVITY  
MAGNETORESISTIVITY  
PHOTOCONDUCTIVITY  
PLASMA CONDUCTIVITY  
SUPERCONDUCTIVITY  
THERMAL CONDUCTIVITY  
THERMAL DIFFUSIVITY  
VISCOSITY  
RT BINARY FLUIDS  
BOLTZMANN TRANSPORT EQUATION  
CONDUCTIVITY  
#DIFFUSION  
FLOW COEFFICIENTS  
HALL EFFECT  
HEAT TRANSFER  
HIGH TEMPERATURE TESTS  
#KINETIC THEORY  
LIGHTHILL GAS MODEL  
MOBILITY  
PHYSICAL PROPERTIES  
SEEBECK EFFECT  
SOLID STATE PHYSICS  
THERMOELECTRICITY  
TRANSPORT THEORY  
0603 1203 2403 3304  
NT CHAPMAN-ENSKOG THEORY  
EYRING THEORY  
MIXING LENGTH FLOW THEORY  
BT #KINETIC THEORY  
RT BOLTZMANN TRANSPORT EQUATION  
DIFFUSION THEORY  
GAS TRANSPORT  
INTEGRAL EQUATIONS  
MOLECULAR INTERACTIONS  
MONTE CARLO METHOD  
THEORIES  
TRANSPORT VEHICLES  
0204 0207  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW  
RT CRAWLER TRACTORS  
GROUND EFFECT MACHINES  
RAPID TRANSIT SYSTEMS  
SHIPS  
#TRANSPORT AIRCRAFT  
#TRANSPORTATION  
3404 0204 1102 1103  
NT AIR TRANSPORTATION  
RAIL TRANSPORTATION  
RAPID TRANSIT SYSTEMS  
SPACE TRANSPORTATION  
URBAN TRANSPORTATION  
RT #CARGO  
CONTRACTORS  
CONVEYORS  
DELIVERY  
DISTRIBUTING  
DISTRIBUTION  
EVACUATING (TRANSPORTATION)  
FREIGHT COSTS  
FREIGHTERS  
#HANDLING EQUIPMENT  
HAULING  
HIGHWAYS  
LOGISTICS  
MATERIALS HANDLING  
#MISSILES  
PACKAGING  
PASSENGERS  
PIPELINES

## TRAPEZOIDAL TAIL SURFACES

ROADS  
ROUTES  
SERVICES  
TERMINAL FACILITIES  
TRACTORS  
TRAFFIC  
TRANSCONTINENTAL SYSTEMS  
TRANSFERRING  
TRANSOCEANIC SYSTEMS  
TRAVEL  
TRUCKS  
TRANSPORTER  
1103 1104  
RT CONTAINERS  
TRANSURANIUM ELEMENTS  
1703 2406  
NT AMERICIUM  
AMERICIUM ISOTOPES  
AMERICIUM 241  
BERKELIUM  
CALIFORNIUM  
CALIFORNIUM ISOTOPES  
CURIUM  
CURIUM ISOTOPES  
CURIUM 242  
CURIUM 244  
EINSTEINIUM  
FERMIUM  
LAWRENCIUM  
MENDELEVIUM  
NEPTUNIUM  
NOBELIUM  
PLUTONIUM  
PLUTONIUM ISOTOPES  
PLUTONIUM 238  
PLUTONIUM 239  
PLUTONIUM 240  
PLUTONIUM 241  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#HEAVY ELEMENTS  
ISOTOPES  
#METALS  
NUCLIDES  
RADIOACTIVE ISOTOPES  
RT TRANSITION METALS  
TRANSVERSE ACCELERATION  
0401 0502 2311  
BT ACCELERATION (PHYSICS)  
RT ACCELERATION  
ACCELERATION STRESSES (PHYSIOLOGY)  
ANGULAR ACCELERATION  
TRANSVERSE OSCILLATION  
0710 2301 2309 2402  
NT H WAVES  
BT #OSCILLATIONS  
RT GAMMA RAYS  
HARMONIC OSCILLATION  
LATERAL OSCILLATION  
STABLE OSCILLATIONS  
TRANSIENT OSCILLATIONS  
TRANSVERSE VIBRATION  
USE TRANSVERSE WAVES  
TRANSVERSE WAVES  
0710 2309 2402 2501  
UF TRANSVERSE VIBRATION  
RT #ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
GAMMA RAYS  
LONGITUDINAL WAVES  
MAGNETOHYDRODYNAMIC FLOW  
PLANE WAVES  
RADIO WAVES  
S WAVES  
VIBRATION MODE  
WAVES  
TRAP PROGRAM  
2307 2402 2502  
BT #PROGRAMS  
RT PLASMA CONTROL  
RADIATION  
TRAPEZOIDAL TAIL SURFACES  
0101 0102 0103 0104  
BT #PLANFORMS  
TAIL SURFACES  
RT #CONTROL SURFACES  
HORIZONTAL TAIL SURFACES  
HYPERSONIC AIRCRAFT  
RUDDERS  
STABILIZERS (FLUID DYNAMICS)  
#SUPERSONIC AIRCRAFT  
SWEEPBACK TAIL SURFACES

# TRAPEZOIDAL WINGS

TRAPEZOIDAL WINGS  
0102 0104 0201 0202  
BT #AIRFOILS  
LOW ASPECT RATIO WINGS  
#PLANFORMS  
SWEEP FORWARD WINGS  
SWEEP WINGS  
SWEEPBACK WINGS  
WING PLANFORMS  
WINGS

TRAPEZOIDS  
1902  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
POLYGONS  
TETRAGONS

TRAPPED MAGNETIC FIELDS  
2307 2402 2502  
BT #MAGNETIC FIELDS  
RT MAGNETICALLY TRAPPED PARTICLES  
PLASMA CONTROL  
SUPERCONDUCTIVITY  
TRAPPING

TRAPPED PARTICLES  
1307 2402 2403 2502  
UF TRAPPED RADIATION  
NT ARTIFICIAL RADIATION BELTS  
INNER RADIATION BELT  
MAGNETICALLY TRAPPED PARTICLES  
OUTER RADIATION BELT  
PROTON BELTS  
RADIATION BELTS  
BT #PARTICLES  
RT CHARGED PARTICLES  
ELECTRON PRECIPITATION  
PROTON PRECIPITATION  
TRAPPING

TRAPPED RADIATION  
USE RADIATION BELTS  
TRAPPED PARTICLES

TRAPPING  
2303 2402 2403  
NT CRYOTRAPPING  
RT CONDUCTION BANDS  
CRYSTAL DEFECTS  
PHOSPHORESCENCE  
RADIATION BELTS  
TRAPPED MAGNETIC FIELDS  
TRAPPED PARTICLES

TRAPS  
2806 2808 2809  
NT COLD TRAPS  
ION TRAPS (INSTRUMENTATION)  
VAPOR TRAPS  
BT CONCENTRATORS  
ENTRAPMENT  
#SEPARATORS  
#VALVES

TRAVEL  
0201 0408 0702 2102 3009 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DISTANCE  
LOGISTICS  
#RANGE (EXTREMES)  
#TRANSPORTATION

TRAVELING CHARGE  
2304 2402 2502  
BT #ELECTRIC CHARGE  
RT ELECTRODYNAMICS  
ENERGY DISSIPATION  
FIELD THEORY (PHYSICS)

TRAVELING IONOSPHERIC DISTURBANCES  
1302 1804  
UF TID  
BT #IONOSPHERIC DISTURBANCES  
RT IONOSPHERIC CURRENTS  
IONOSPHERIC PROPAGATION  
IONOSPHERIC STORMS  
MAGNETIC VARIATIONS  
SUDDEN IONOSPHERIC DISTURBANCES

TRAVELING SALESMAN PROBLEM  
1902  
RT OPERATIONS RESEARCH  
PROBABILITY THEORY  
PROBLEMS  
#STATISTICAL ANALYSIS

TRAVELING SOLVENT METHOD  
0602 2601  
(LIMITED TO CRYSTAL GROWTH TECHNIQUES)  
BT CRYSTAL GROWTH

#GROWTH  
RT #ADDITIVES  
CARRIER INJECTION  
METHODOLOGY

TRAVELING WAVE AMPLIFIERS  
0903 0905  
BT #AMPLIFIERS  
RT TRAVELING WAVE TUBES

TRAVELING WAVE LASERS  
0710 1601 2306 2402  
BT LASERS  
#STIMULATED EMISSION DEVICES  
RT #AMPLIFIERS  
CAVITY RESONATORS  
COHERENT ELECTROMAGNETIC RADIATION

TRAVELING WAVE MODULATION  
0702 0710 2402  
BT #MODULATION  
RT LASERS  
LIGHT MODULATION  
WAVE DIFFRACTION

TRAVELING WAVE TUBES  
0710 0905 2309 2402  
UF CRESTATRONS  
HELIX TUBES  
RT BACKWARD WAVES  
BRILLOUIN FLOW  
CROSSED FIELD AMPLIFIERS  
ELECTRON BUNCHING  
MAGNETOSTATIC AMPLIFIERS  
MAGNETRONS  
#OSCILLATIONS  
SCALLOPING  
TRAVELING WAVE AMPLIFIERS

TRAVELING WAVES  
0710 2301 2309 2402  
RT BACKWARD WAVES  
#ELASTIC WAVES  
#ELECTROMAGNETIC RADIATION  
NONRESONANCE  
PHASE VELOCITY  
PLANE WAVES  
RADIO WAVES

TRAYS  
1504  
RT BUCKETS  
CONTAINERS  
PLATES

TREADMILLS  
0404 0502 1504  
RT PHYSICAL EXERCISE  
PHYSICAL FITNESS  
PHYSICAL WORK  
PHYSIOLOGICAL TESTS

TREADS  
1504  
RT STAIRWAYS  
TIRES  
VEHICULAR TRACKS

TREAT (TEST FACILITY)  
USE TRANSIENT REACTOR TEST FACILITY

TREATMENT  
0404 0405 3404 3407  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UF CONDITIONING (TREATING)  
RT AIR CONDITIONING  
CLINICAL MEDICINE  
#HEAT TREATMENT  
PREWHITENING  
WATER TREATMENT

TREES  
0409 1902  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT TREES (MATHEMATICS)  
TREES (PLANTS)  
TREES (MATHEMATICS)  
1902  
RT #ANALYSIS (MATHEMATICS)  
#CIRCUITS  
GRAPHS (CHARTS)  
TOPOLOGY  
TREES  
TREES (PLANTS)  
0409  
BT #PLANTS (BOTANY)  
RT BALSA  
DEPOLIANTS  
FORESTS

# NASA THESAURUS (ALPHABETICAL LISTING)

GEOBOTANY  
MASONITE (TRADEMARK)  
PLYWOOD  
TIMBER IDENTIFICATION  
TIMBER INVENTORY  
TIMBER VIGOR  
TREES  
VEGETATION  
WOOD

TREHOES  
0405 0408 1308  
RT EARTHQUAKES  
PARALYSIS  
PARKINSON DISEASE  
ROUSE BELTS

TRENDS  
3402 3406  
RT EXTRAPOLATION  
#FORECASTING  
#GROWTH  
PERIODIC VARIATIONS  
PROJECTION  
TIME SERIES ANALYSIS

TRESCA FLOW  
1202  
BT #FLUID FLOW  
PLASTIC FLOW  
RT DUCTILITY  
#STABILITY  
YIELD POINT

TRIACETIN  
1808 1811  
BT #ESTERS  
RT ACETIC ACID  
GLYCEROLS  
PLASTICIZERS  
SOLVENTS

TRIAMINOGUANIDINIUM AZIDE  
0403 1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
AZIDES (ORGANIC)  
DIAMINES  
GUANIDINES  
#NITROGEN COMPOUNDS

TRIAMINOGUANIDINIUM HYDRAZONIUM AZIDE  
1808  
BT AZIDES (ORGANIC)  
#NITROGEN COMPOUNDS

TRIANGLES  
1902  
BT EUCLIDEAN GEOMETRY  
#GEOMETRY  
POLYGONS  
RT TETRAHEDRONS  
TRIGONOMETRY

TRIANGULAR WINGS  
USE DELTA WINGS

TRIANGULATION  
0709 1304 1308 1901  
RT ANGLES (GEOMETRY)  
MAPPING  
#NAVIGATION  
TRIGONOMETRY

TRIATOMIC MOLECULES  
0603 1203 2401 2405  
BT #MOLECULES  
POLYATOMIC MOLECULES  
RT DIATOMIC MOLECULES

TRIAxIAL STRESSES  
3203  
UF TRIAXIALITY  
BT #STRESSES  
RT #MECHANICAL PROPERTIES  
TENSILE STRESS

TRIAxIALITY  
USE TRIAXIAL STRESSES

TRIBOLIA  
0402 0404  
BT #ANIMALS  
ARTHROPODS  
BEETLES  
CRICKETS  
INSECTS  
INVERTEBRATES  
RT BEETLES

TRICHLORIDES  
USE CHLORIDES

TRIDENT AIRCRAFT  
USE DH 121 AIRCRAFT

TRIEVES  
1808

# NASA THESAURUS (ALPHABETICAL LISTING)

BT #ALIPHATIC COMPOUNDS  
ALKENES  
#HYDROCARBONS  
TRIETHYL COMPOUNDS  
1808  
BT #ALIPHATIC COMPOUNDS  
ALKYL COMPOUNDS  
RT ETHYL COMPOUNDS  
TRIFLUOROAMINE OXIDE  
1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
#FLUORINE COMPOUNDS  
FLUORINE ORGANIC COMPOUNDS  
FLUORO COMPOUNDS  
FLUOROAMINES  
#HALOGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
TRIGATONS  
0905  
BT #SWITCHES  
RT GAS TUBES  
PULSE MODULATION  
SPARK GAPS  
TRIGGER CIRCUITS  
TRIGGER CIRCUITS  
0902  
BT #CIRCUITS  
RT BISTABLE CIRCUITS  
GATES (CIRCUITS)  
MULTIVIBRATORS  
THRESHOLD GATES  
THRESHOLD LOGIC  
THYRISTORS  
TRIGATONS  
TRIGGERS  
USE ACTUATORS  
TRIGONOMETRIC FUNCTIONS  
1902  
UP COSINE  
SECANTS  
SINE  
NT COSINE SERIES  
SINE SERIES  
TANGENTS  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
PERIODIC FUNCTIONS  
REAL VARIABLES  
TRANSCENDENTAL FUNCTIONS  
RT FRESNEL INTEGRALS  
SINE WAVES  
TRIGONOMETRY  
1902  
BT ANALYTIC GEOMETRY  
EUCLIDEAN GEOMETRY  
#GEOMETRY  
RT ANGLES (GEOMETRY)  
TRIANGLES  
TRIANGULATION  
TRIGONOMETRIC FUNCTIONS  
TRIM (BALANCE)  
USE AERODYNAMIC BALANCE  
TRIMERS  
1810  
BT PREPOLYMERS  
RT DIMERS  
MONOMERS  
TRINETHADIONE  
0403 0405 1808  
BT #ALIPHATIC COMPOUNDS  
#DRUGS  
#HETEROCYCLIC COMPOUNDS  
KETONES  
TRIMETHYL COMPOUNDS  
1808  
BT #ALIPHATIC COMPOUNDS  
ALKYL COMPOUNDS  
BT METHYL COMPOUNDS  
TRINITRANINE  
1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
#NITROGEN COMPOUNDS  
TRINITRO COMPOUNDS  
1704 1804 1808  
BT NITRO COMPOUNDS  
#NITROGEN COMPOUNDS  
TRINITROTOLUENE  
1808 3302  
UP TNT (TRINITROTOLUENE)

BT EXPLOSIVES  
NITRO COMPOUNDS  
NITROBENZENES  
#NITROGEN COMPOUNDS  
RT EXPOSURE  
TRINITROTETRAZOCYCLOHEXANE  
USE RDX  
TRIODES  
0903 0905 1002  
RT #DIODES  
#ELECTRON TUBES  
MICROWAVE TUBES  
SEMICONDUCTOR DEVICES  
TETRODES  
THYRISTORS  
TRANSISTORS  
TRIOLES  
1808  
NT CYANURIC ACID  
BT ALCOHOLS  
#ALIPHATIC COMPOUNDS  
#HYDROXYL COMPOUNDS  
TRIPHENYL SILICON  
1808  
BT ORGANIC SILICON COMPOUNDS  
#SILICON COMPOUNDS  
TRIPHENYLS  
1808  
BT #HYDROCARBONS  
TRIPLER EXCITATION  
USE ATOMIC ENERGY LEVELS  
TRIPLER STATE  
USE ATOMIC ENERGY LEVELS  
TRIPODS  
1407 1412  
BT SUPPORTS  
RT #OPTICAL EQUIPMENT  
TRIPROPELLANTS  
USE LIQUID ROCKET PROPELLANTS  
TRIS (DIFLUORAMINO) FLUOROMETHANE  
1808  
BT #ALIPHATIC COMPOUNDS  
#AMINES  
TRITIUM  
2406 0603 1807  
UP HYDROGEN 3  
BT #CHEMICAL ELEMENTS  
#GASES  
HYDROGEN  
HYDROGEN ISOTOPES  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
RT HEAVY WATER  
NUCLEAR FUELS  
TRITONS  
2405 2406 3001 3008 3101  
BT CHARGED PARTICLES  
#IONS  
NUCLEI (NUCLEAR PHYSICS)  
#PARTICLES  
BT ALPHA PARTICLES  
PROTONS  
TRIVALENT IONS  
0603 0604 1703 1804 1807  
BT #IONS  
RT FREE RADICALS  
VALENCE  
TROCHOIDS  
USE PIVOTS  
TROILITE  
1806 3005  
BT #CHALCOGENIDES  
#IRON COMPOUNDS  
#MINERALS  
PYRRHOTITE  
SULFIDES  
#SULFUR COMPOUNDS  
RT IRON METEORITES  
METEORITIC COMPOSITION  
TROJAN AIRCRAFT  
USE T-28 AIRCRAFT  
TROJAN ORBITS  
1904 3001 3006 3007  
BT #ORBITS  
SPACECRAFT ORBITS  
CELESTIAL MECHANICS  
MANY BODY PROBLEM  
THREE BODY PROBLEM  
TROPICAL METEOROLOGY  
1305 2003  
BT #METEOROLOGY

## TRUCKS

BT METEOROLOGICAL PARAMETERS  
TROPICAL REGIONS  
TROPICAL STORMS  
TROPICAL REGIONS  
1305 2001 2003  
UP LOW LATITUDES  
SUBTROPICAL REGIONS  
TROPICS  
BT #REGIONS  
RT CLIMATOLOGY  
GEOGRAPHY  
HOT WEATHER  
#METEOROLOGY  
TEMPERATE REGIONS  
TROPICAL METEOROLOGY  
TROPICAL STORMS  
2001 2003  
RT ANNA HURRICANE  
HURRICANES  
TYPHOONS  
BT #STORMS  
STORMS (METEOROLOGY)  
RT ATMOSPHERIC CIRCULATION  
CYCLONES  
#METEOROLOGY  
TORNADOES  
TROPICAL METEOROLOGY  
TROPICS  
USE TROPICAL REGIONS  
TROPISM  
0404  
NT AEOLOTROPISM  
GEOTROPISM  
GYROTROPISM  
NEUROTROPISM  
TROPOPAUSE  
1302  
(ALTITUDE APPROXIMATELY 15 TO 20 KM)  
RT DIURNAL VARIATIONS  
ISOTHERMAL LAYERS  
TROPOSPHERE  
1301 2003  
RT CHEMOSPHERE  
HOMOSPHERE  
TROPOSPHERIC RADIATION  
0710 1302 2402 2901 2903  
(EXCLUDES TERRESTRIAL RADIATION)  
BT #ATMOSPHERIC RADIATION  
#ELECTROMAGNETIC RADIATION  
RT SKY RADIATION  
STRATOSPHERE RADIATION  
TERRESTRIAL RADIATION  
TROPOSPHERIC SCATTERING  
TROPOSPHERIC WAVES  
TROPOSPHERIC SCATTERING  
0702 0705 0710 0901  
BT ATMOSPHERIC SCATTERING  
#SCATTERING  
WAVE SCATTERING  
RT LIGHT SCATTERING  
TROPOSPHERIC RADIATION  
WIDEBAND COMMUNICATION  
TROPOSPHERIC WAVES  
0710 1302 2402 2901 2903  
(EXCLUDES RADIO WAVES)  
RT #ELASTIC WAVES  
LEE WAVES  
RADIO WAVES  
#SURFACE WAVES  
TROPOSPHERIC RADIATION  
WAVES  
TROPYL COMPOUNDS  
1808  
BT ALKALOIDS  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
TROUBLESHOOTING  
USE MAINTENANCE  
TROUGHES  
0603  
RT DITCHES  
TRUCKS  
0205 1102 1103  
(EXCLUDES UNDERCARRIAGES)  
UP VANS  
NT TANK TRUCKS  
BT #SURFACE VEHICLES  
RT ANTISKID DEVICES  
AUTOMOBILES  
#CARGO  
DELIVERY  
DOLLIES



## TRUNCATION (MATHEMATICS)

GROUND HANDLING  
HAULING  
MATERIALS HANDLING  
MILITARY VEHICLES  
RECOVERY VEHICLES  
TRACTORS  
TRAILERS  
#TRANSPORTATION  
TRUNCATION (MATHEMATICS)  
USE APPROXIMATION  
TRUNCATION ERRORS  
0802 1902 1905  
BT ERRORS  
RT NUMERICAL ANALYSIS  
PRECISION  
TRUNKS (LINES)  
USE #TRANSMISSION LINES  
TRUNNIONS  
USE SHAFTS (MACHINE ELEMENTS)  
TRUSSES  
3202 3203  
BT #STRUCTURAL MEMBERS  
RT ARCHES  
BEAMS (SUPPORTS)  
FRAMES  
GIRDERS  
I BEAMS  
LOOPS  
MAXWELL-MOHR METHOD  
STRUCTURES  
STRUTS  
SUPPORTS  
TRYPANOSOME  
0402 0407  
BT #ANIMALS  
FLAGELLATA  
INVERTEBRATES  
#MICROORGANISMS  
PROTOZOA  
RT PARASITIC DISEASES  
TRYPSIN  
0403 1808  
BT ENZYMES  
TRYPTAMINES  
0403 1808  
BT #AMINES  
TRYPTOPHAN  
0403 1808  
BT #ACIDS  
AMINO ACIDS  
AZOLES  
CARBOXYLIC ACIDS  
#HETEROCYCLIC COMPOUNDS  
INDOLES  
#NITROGEN COMPOUNDS  
#ORGANIC COMPOUNDS  
PYRROLES  
TS-11 AIRCRAFT  
0201  
UP ISKRA AIRCRAFT  
POLISH TS-11 AIRCRAFT  
BT #JET AIRCRAFT  
MONOPLANES  
TRAINING AIRCRAFT  
TSR-2 AIRCRAFT  
0201 0207  
UP BAC TSR 2 AIRCRAFT  
BT ATTACK AIRCRAFT  
#BAC AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
OBSERVATION AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
#SUPERSONIC AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TSUNAMI WAVES  
1306 1308  
RT EARTH MOVEMENTS  
EARTHQUAKES  
SEISMIC WAVES  
SHOCK WAVES  
#SURFACE WAVES  
WATER WAVES  
TU-104 AIRCRAFT  
0201 0204  
UP CAMEL AIRCRAFT  
TUPOLEV TU-104 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
PASSENGER AIRCRAFT  
TUPOLEV AIRCRAFT

TU-124 AIRCRAFT  
0201 0204  
UP COOKPOT AIRCRAFT  
TUPOLEV TU-124 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
#TRANSPORT AIRCRAFT  
TUPOLEV AIRCRAFT  
RT TURBOPAN ENGINES  
TU-134 AIRCRAFT  
0201 0204  
UP TUPOLEV TU-134 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
PASSENGER AIRCRAFT  
TUPOLEV AIRCRAFT  
TURBOPAN AIRCRAFT  
TU-144 AIRCRAFT  
0201 0205  
UP TUPOLEV TU-124 AIRCRAFT  
BT #COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
PASSENGER AIRCRAFT  
#SUPERSONIC AIRCRAFT  
SUPERSONIC COMMERCIAL AIR TRANSPORT  
#TRANSPORT AIRCRAFT  
TURBOPAN AIRCRAFT  
BT AIRCRAFT  
TU-121 ENGINE  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
TU-122 ENGINE  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT MINUTEMAN ICBM  
TUBE ANODES  
0905  
BT ANODES  
#ELECTRODES  
RT ELECTRON GUNS  
TUBE CATHODES  
TUBE CATHODES  
0905  
RT COLD CATHODE TUBES  
COLD CATHODES  
FREQUENCY MODULATION  
PHOTOMULTIPLIERS  
HOT CATHODES  
PHOTOCATHODES  
PHOTOMULTIPLIER TUBES  
PHOTOTUBES  
THERMIONIC CATHODES  
TUNNEL CATHODES  
BT CATHODES  
RT #ELECTRODES  
ELECTRON GUNS  
HOLLOW CATHODES  
TUBE ANODES  
TUBE GRIDS  
0905  
BT #ELECTRODES  
RT BIAS  
ELECTRON GUNS  
#ELECTRON TUBES  
GRIDS  
IONIZERS  
TUBE HEAT EXCHANGERS  
0905 3303 3304  
BT HEAT EXCHANGERS  
BT REGENERATORS  
TUBERCULOSIS  
0405  
BT #DISEASES  
INFECTIOUS DISEASES  
RESPIRATORY DISEASES  
RT ADDISON'S DISEASE  
PATCH TESTS  
TUBES  
0801 0903 0905 1504 3203  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BOURDON TUBES  
BRONCHIAL TUBE  
CANNULAE  
CAPILLARY TUBES  
CIRCULAR TUBES

## NASA THESAURUS (ALPHABETICAL LISTING)

DUCTS  
#ELECTRON TUBES  
EUSTACHIAN TUBES  
HILSCH TUBES  
HOSES  
LININGS  
MANIFOLDS  
MICROWAVE TUBES  
PIPES (TUBES)  
PITOT TUBES  
SHOCK TUBES  
SIPHONS  
TRACHEA  
VENTURI TUBES  
TUBING  
USE PIPES (TUBES)  
TUMBLING MOTION  
0101 3006 3107 3110  
RT ATTITUDE STABILITY  
DESTABILIZATION  
MIXERS  
MOTION  
ROTATING ENVIRONMENTS  
SATELLITE ROTATION  
SEPARATION  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
TUMORS  
0404 0405  
RT CANCER  
LEUKEMIAS  
NEOPLASMS  
BT #DISEASES  
RT CYSTS  
TUNERS  
0701 0702 0705 0710 2301  
RT WAVEGUIDE TUNERS  
RT RADIO RECEIVERS  
RESONANCE PROBES  
RESONANT FREQUENCIES  
TELEVISION RECEIVERS  
TUNGSTATES  
0603  
RT CALCIUM TUNGSTATES  
LEAD TUNGSTATES  
ZINC TUNGSTATES  
BT #TUNGSTEN COMPOUNDS  
TUNGSTEN  
0603 1703  
BT #METALS  
#REFRACTORY MATERIALS  
REFRACTORY METALS  
TRANSITION METALS  
TUNGSTEN ALLOYS  
1701 1704  
BT #ALLOYS  
HEAT RESISTANT ALLOYS  
#REFRACTORY MATERIALS  
REFRACTORY METAL ALLOYS  
RT STELLITE (TRADEMARK)  
TUNGSTEN CARBIDES  
0603 1804  
BT CARBIDES  
#CARBON COMPOUNDS  
#TUNGSTEN COMPOUNDS  
TUNGSTEN CHLORIDES  
0603 1804  
BT CHLORIDES  
CHLORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
#TUNGSTEN COMPOUNDS  
TUNGSTEN HALIDES  
#TUNGSTEN COMPOUNDS  
0603 1804  
RT CALCIUM TUNGSTATES  
LEAD TUNGSTATES  
SCHEELITE  
TUNGSTATES  
TUNGSTEN CARBIDES  
TUNGSTEN CHLORIDES  
TUNGSTEN FLUORIDES  
TUNGSTEN HALIDES  
TUNGSTEN OXIDES  
ZINC TUNGSTATES  
RT GROUP 6B COMPOUNDS  
METAL COMPOUNDS  
TUNGSTEN FLUORIDES  
0603 1804  
BT FLUORIDES  
#FLUORINE COMPOUNDS

# NASA THESAURUS (ALPHABETICAL LISTING)

HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 #TUNGSTEN COMPOUNDS  
 TUNGSTEN HALIDES  
 TUNGSTEN HALIDES  
 0603 1804  
 NT TUNGSTEN CHLORIDES  
 TUNGSTEN FLUORIDES  
 BT HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
 #TUNGSTEN COMPOUNDS  
 TUNGSTEN INERT GAS WELDING  
 USE GAS TUNGSTEN ARC WELDING  
 TUNGSTEN ISOTOPIES  
 0603 1703  
 BT #CHEMICAL ELEMENTS  
 ISOTOPIES  
 #REFRACTORY MATERIALS  
 REFRACTORY METALS  
 TRANSITION METALS  
 TUNGSTEN OXIDES  
 0603 1804  
 NT SCHEELITE  
 BT #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
 #TUNGSTEN COMPOUNDS  
 TUNGSTEN METEORITE  
 3005  
 BT #CELESTIAL BODIES  
 METEORITES  
 STONY METEORITES  
 RT METEORITE CRATERS  
 TUNING  
 0702 0705 0710 2301  
 NT SCHULER TUNING  
 RT AUTOMATIC FREQUENCY CONTROL  
 AUTOMATIC GAIN CONTROL  
 Q FACTORS  
 #RESONANCE  
 RESONANT FREQUENCIES  
 RESONATORS  
 TUNING FORK GYROSCOPES  
 1402 1403 1410 2102 2104 2309  
 BT #GYROSCOPES  
 RT RESONATORS  
 TUNNEL CATHODES  
 0903 0905 2309  
 BT CATHODES  
 #ELECTRODES  
 TUBE CATHODES  
 COLD CATHODE TUBES  
 COLD CATHODES  
 #ELECTRON TUBES  
 HOLLOW CATHODES  
 TUNNELS  
 TUNNEL DIODES  
 0903 0905 2309  
 UP ESAKI DIODES  
 BT #DIODES  
 RT ELECTRON TUNNELING  
 JUNCTION DIODES  
 NEGATIVE CONDUCTANCE  
 NEGATIVE RESISTANCE CIRCUITS  
 TUNNELS  
 TUNNEL RESISTORS  
 USE ELECTRON TUNNELING  
 RESISTORS  
 TUNNELING  
 1002 2309 2401 2602  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT ELECTRON TUNNELING  
 TUNNELING (EXCAVATION)  
 TUNNELING (EXCAVATION)  
 3404  
 BT EXCAVATION  
 RT CONSTRUCTION  
 DRAINAGE  
 DRILLING  
 JACKS (LIFTS)  
 LINING PROCESSES  
 ROCKS  
 #SOILS  
 TUNNELING  
 TUNNELS  
 0905 1110  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)  
 RT GAPS  
 HYDRAULIC TEST TUNNELS  
 LUNAR SHELTERS  
 PASSAGEWAYS  
 STREETS  
 TRANSFER TUNNELS  
 TUNNEL CATHODES  
 TUNNEL DIODES  
 WIND TUNNELS  
 TUPOLEY AIRCRAFT  
 0201 0204  
 NT TU-104 AIRCRAFT  
 TU-124 AIRCRAFT  
 TU-134 AIRCRAFT  
 RT AIRCRAFT  
 TUPOLEY TU-104 AIRCRAFT  
 USE TU-104 AIRCRAFT  
 TUPOLEY TU-124 AIRCRAFT  
 USE TU-124 AIRCRAFT  
 TU-144 AIRCRAFT  
 TUPOLEY TU-134 AIRCRAFT  
 USE TU-134 AIRCRAFT  
 TURBIDITY  
 0101 1202 1203  
 RT ABSORPTANCE  
 CLARITY  
 ELECTROMAGNETIC PROPERTIES  
 HAZE  
 LIGHT TRANSMISSION  
 OPACITY  
 OPTICAL DENSITY  
 PROPERTIES  
 SOLUBILITY  
 TRANSPARENCY  
 TURBINE BLADES  
 0104 1504 2801 2805  
 BT TURBOMACHINE BLADES  
 RT BLADES  
 COMPRESSOR BLADES  
 ENGINE PARTS  
 ROTOR BLADES (TURBOMACHINERY)  
 STATOR BLADES  
 TURBINE INSTRUMENTS  
 TURBINE WHEELS  
 TURBINES  
 TURBINE ENGINES  
 0202 2801 2805  
 NT BRISTOL-SIDDELEY BS 53 ENGINE  
 BRISTOL-SIDDELEY OLYMPUS 593 ENGINE  
 BRISTOL-SIDDELEY VIPER ENGINE  
 CP-700 ENGINE  
 DUCTED FAN ENGINES  
 GAS TURBINE ENGINES  
 J-33 ENGINE  
 J-34 ENGINE  
 J-40 ENGINE  
 J-47 ENGINE  
 J-52 ENGINE  
 J-57 ENGINE  
 J-65 ENGINE  
 J-71 ENGINE  
 J-73 ENGINE  
 J-75 ENGINE  
 J-79 ENGINE  
 J-85 ENGINE  
 J-93 ENGINE  
 J-97 ENGINE  
 J-57-P-20 ENGINE  
 J-69-T-25 ENGINE  
 JET ENGINES  
 LOW VOLUME RAMJET ENGINES  
 PTL-6 ENGINE  
 PULSEJET ENGINES  
 RA-28 ENGINE  
 RAMJET ENGINES  
 STP-102 ENGINE  
 SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 T-34 ENGINE  
 T-38 ENGINE  
 T-53 ENGINE  
 T-56 ENGINE  
 T-58 ENGINE  
 T-63 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-76 ENGINE  
 T-78 ENGINE  
 T-58-GE-8B ENGINE  
 TP-30 ENGINE  
 TP-106 ENGINE

## TURBOCOMPRESSORS

TURBOFAN ENGINES  
 TURBOJET ENGINES  
 TURBOPROP ENGINES  
 TURBORAMJET ENGINES  
 BT #ENGINES  
 RT AIRCRAFT ENGINES  
 AUTOMOBILE ENGINES  
 CONVERGENT NOZZLES  
 GAS BEARINGS  
 TORPEDO ENGINES  
 TURBINE EXHAUST NOZZLES  
 TURBINE EXHAUST NOZZLES  
 1504 2805 2806 2808  
 BT EXHAUST NOZZLES  
 RT CONICAL NOZZLES  
 CONVERGENT-DIVERGENT NOZZLES  
 TURBINE ENGINES  
 TURBINE INSTRUMENTS  
 TURBINE INSTRUMENTS  
 1202 1203 1406  
 RT FLOWMETERS  
 INSTRUMENTS  
 TURBINE BLADES  
 TURBINE EXHAUST NOZZLES  
 TURBINE PUMPS  
 TURBINE WHEELS  
 #TURBOMACHINERY  
 TURBINE PUMPS  
 1501 1504 2801 2805 2808  
 UP TURBOPUMPS  
 BT AXIAL FLOW PUMPS  
 #PUMPS  
 #TURBOMACHINERY  
 RT CENTRIFUGAL PUMPS  
 FUEL PUMPS  
 JET PUMPS  
 TURBINE INSTRUMENTS  
 TURBINES  
 TURBOCOMPRESSORS  
 TURBINE WHEELS  
 0104 1504 2801 2805 2808  
 UP ROTOR DISKS  
 TURBOROTORS  
 BT #ROTATING BODIES  
 ROTORS  
 #WHEELS  
 RT COMPRESSOR ROTORS  
 ENGINE PARTS  
 HYDRAULIC EQUIPMENT  
 IMPELLERS  
 TURBINE BLADES  
 TURBINE INSTRUMENTS  
 TURBINES  
 TURBOMACHINE BLADES  
 TURBINES  
 0301 1504 2801 2805  
 NT AXIAL FLOW TURBINES  
 GAS TURBINES  
 SHROUDED TURBINES  
 STEAM TURBINES  
 SUPERSONIC TURBINES  
 TWO STAGE TURBINES  
 BT #TURBOMACHINERY  
 RT #ENGINES  
 IMPELLERS  
 IMPULSE GENERATORS  
 JET ENGINE FUELS  
 JET PROPULSION  
 NOZZLES  
 REFRACTORIES  
 ROTATING GENERATORS  
 ROTORS  
 STATORS  
 TURBINE BLADES  
 TURBINE PUMPS  
 TURBINE WHEELS  
 TURBOGENERATORS  
 TURBOSHAPTS  
 TURBO-SKIVAN AIRCRAFT  
 USE SC-7 AIRCRAFT  
 TURBOALTERNATORS  
 USE AC GENERATORS  
 TURBOGENERATORS  
 TURBOCHARGERS  
 USE SUPERCHARGERS  
 TURBOCOMPRESSORS  
 TURBOCOMPRESSORS  
 1202 1203 1504 2805 2808  
 UP AXIAL COMPRESSORS  
 AXIAL FLOW COMPRESSORS  
 MULTISTAGE COMPRESSORS  
 TURBOCHARGERS

# **TURBOCONVERTERS**

BT TURBOSUPERCHARGERS  
 COMPRESSORS  
 #TURBOMACHINERY  
 RT CENTRIFUGAL COMPRESSORS  
 CENTRIFUGAL PUMPS  
 COMPRESSOR BLADES  
 COMPRESSOR ROTORS  
 ROTATING STALLS  
 ROTORS  
 SUPERCHARGERS  
 SUPERSONIC COMPRESSORS  
 TRANSONIC COMPRESSORS  
 TURBINE PUMPS  
 TURBOPANS  
 TURBOCONVERTERS  
 USE TURBOGENERATORS  
 TURBOELECTRIC CONVERSION  
 USE TURBOGENERATORS  
 TURBOPAN AIRCRAFT  
 0201 2801 2805  
 NT A-7 AIRCRAFT  
 BAC 111 AIRCRAFT  
 BOEING 707 AIRCRAFT  
 BOEING 720 AIRCRAFT  
 BOEING 727 AIRCRAFT  
 BOEING 733 AIRCRAFT  
 BOEING 737 AIRCRAFT  
 C-141 AIRCRAFT  
 CONCORDE AIRCRAFT  
 CV-990 AIRCRAFT  
 DC 8 AIRCRAFT  
 DH 121 AIRCRAFT  
 DO-31 AIRCRAFT  
 F-111 AIRCRAFT  
 F-28 TRANSPORT AIRCRAFT  
 HE-211 AIRCRAFT  
 IL-62 AIRCRAFT  
 MYSTERE 20 AIRCRAFT  
 P-1127 AIRCRAFT  
 P-1154 AIRCRAFT  
 SAAB 37 AIRCRAFT  
 SAAB 105 AIRCRAFT  
 SE-210 AIRCRAFT  
 TU-134 AIRCRAFT  
 TU-144 AIRCRAFT  
 BT #JET AIRCRAFT  
 RT C-135 AIRCRAFT  
 LOW WING AIRCRAFT  
 PASSENGER AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN ENGINES  
 TURBOPROP AIRCRAFT  
 TURBOPAN ENGINES  
 1504 2801 2805 2806  
 NT BRISTOL-SIDDELEY BS 53 ENGINE  
 CF-700 ENGINE  
 J-97 ENGINE  
 STP-102 ENGINE  
 TF-30 ENGINE  
 TF-106 ENGINE  
 BT AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 TURBOJET ENGINES  
 RT B-52 AIRCRAFT  
 B-52 AIRCRAFT  
 BOEING 747 AIRCRAFT  
 C-5 AIRCRAFT  
 C-141 AIRCRAFT  
 DC 10 AIRCRAFT  
 DUCTED FAN ENGINES  
 L-1011 AIRCRAFT  
 P-1127 AIRCRAFT  
 P-1154 AIRCRAFT  
 TU-124 AIRCRAFT  
 TURBOPAN AIRCRAFT  
 TURBOPANS  
 TURBOPROP ENGINES  
 TURBOPANS  
 1504 2801 2805 2806  
 BT #TURBOMACHINERY  
 RT DUCTED FANS  
 FANS  
 LIFT FANS  
 TURBOCOMPRESSORS  
 TURBOPAN ENGINES  
 TURBOGENERATORS  
 0301 1202 1504 2304  
 UP THERMAL POWER

TURBOALTERNATORS  
 TURBOCONVERTERS  
 TURBOELECTRIC CONVERSION  
 ASTEC SOLAR TURBOELECTRIC GENERATOR  
 BT #ELECTRIC GENERATORS  
 ROTATING GENERATORS  
 #TURBOMACHINERY  
 AC GENERATORS  
 ELECTRIC POWER  
 ELECTRICAL ENGINEERING  
 GAS TURBINE ENGINES  
 GAS TURBINES  
 GENERATORS  
 SWAP  
 SWAP 1  
 SWAP 2  
 SWAP 8  
 SOLAR GENERATORS  
 SPACE POWER UNIT REACTORS  
 STEAM TURBINES  
 SUNFLOWER POWER SYSTEM  
 SUNFLOWER 1  
 TURBINES  
 TURBOJET AIRCRAFT  
 USE #JET AIRCRAFT  
 TURBOJET ENGINE CONTROL  
 2801 2805 2807  
 BT ENGINE CONTROL  
 RT AIRCRAFT CONTROL  
 #AUTOMATIC CONTROL  
 #FLIGHT CONTROL  
 FUEL CONTROL  
 REMOTE CONTROL  
 SERVOCONTROL  
 THRUST CONTROL  
 TURBOJET ENGINES  
 2801 2805  
 BT BRISTOL-SIDDELEY BS 53 ENGINE  
 BRISTOL-SIDDELEY OLIMBUS 593 ENGINE  
 BRISTOL-SIDDELEY VIPER ENGINE  
 CF-700 ENGINE  
 DUCTED FAN ENGINES  
 J-33 ENGINE  
 J-34 ENGINE  
 J-40 ENGINE  
 J-47 ENGINE  
 J-52 ENGINE  
 J-57 ENGINE  
 J-65 ENGINE  
 J-71 ENGINE  
 J-73 ENGINE  
 J-75 ENGINE  
 J-79 ENGINE  
 J-85 ENGINE  
 J-93 ENGINE  
 J-97 ENGINE  
 J-57-P-20 ENGINE  
 J-69-T-25 ENGINE  
 RA-28 ENGINE  
 STP-102 ENGINE  
 T-34 ENGINE  
 T-38 ENGINE  
 T-53 ENGINE  
 T-55 ENGINE  
 T-56 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-78 ENGINE  
 TF-30 ENGINE  
 TF-106 ENGINE  
 TURBOPAN ENGINES  
 TURBOPROP ENGINES  
 AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 RT AIR BREATHING ENGINES  
 CONVERGENT NOZZLES  
 HOUND DOG MISSILE  
 #JET AIRCRAFT  
 NACE MISSILES  
 QUAIL MISSILE  
 RAMJET ENGINES  
 REGULUS MISSILE  
 TURBOMACHINE BLADES  
 0104 1202 1501 1504  
 NT COMPRESSOR BLADES  
 ROTOR BLADES (TURBOMACHINERY)  
 STATOR BLADES  
 TURBINE BLADES

# **NASA THESAURUS (ALPHABETICAL LISTING)**

RT #AIRFOILS  
 BLADES  
 BUCKETS  
 CASCADE FLOW  
 IMPELLERS  
 PADDLES  
 ROTORS  
 TURBINE WHEELS  
 #VANES  
 #TURBOMACHINERY  
 1202 1203 1504  
 NT ASTEC SOLAR TURBOELECTRIC GENERATOR  
 AXIAL FLOW TURBINES  
 CENTRIFUGAL COMPRESSORS  
 CENTRIFUGAL PUMPS  
 GAS TURBINES  
 J-33 ENGINE  
 SHROUDED TURBINES  
 STEAM TURBINES  
 SUPERSONIC TURBINES  
 TURBINE PUMPS  
 TURBINES  
 TURBOCOMPRESSORS  
 TURBOPANS  
 TURBOGENERATORS  
 TWO STAGE TURBINES  
 RT BLOWERS  
 COMPRESSORS  
 MACHINERY  
 #PUMPS  
 ROTATING GENERATORS  
 SUPERCHARGERS  
 TURBINE INSTRUMENTS  
 TURBOPROP AIRCRAFT  
 0104 0201 2801 2805  
 NT AN-22 AIRCRAFT  
 AN-24 AIRCRAFT  
 ARGOSY MK-1 AIRCRAFT  
 AW 650 AIRCRAFT  
 BREGUET 941 AIRCRAFT  
 BREGUET 942 AIRCRAFT  
 BREGUET 1150 AIRCRAFT  
 C-160 AIRCRAFT  
 CL-44 AIRCRAFT  
 CL-84 AIRCRAFT  
 DHC 5 AIRCRAFT  
 DINPIA PA AIRCRAFT  
 ELECTRA AIRCRAFT  
 F-27 AIRCRAFT  
 G-222 AIRCRAFT  
 HS-748 AIRCRAFT  
 MH-260 AIRCRAFT  
 MH-262 AIRCRAFT  
 OV-1 AIRCRAFT  
 OV-10 AIRCRAFT  
 POTEZ 840 AIRCRAFT  
 SC-5 AIRCRAFT  
 VISCOUNT AIRCRAFT  
 YS-11 AIRCRAFT  
 BT #JET AIRCRAFT  
 RT GENERAL AVIATION AIRCRAFT  
 #JET AIRCRAFT  
 LOW WING AIRCRAFT  
 PASSENGER AIRCRAFT  
 SUBSONIC AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 TURBOPAN AIRCRAFT  
 TURBOPROP ENGINES  
 TURBOPROP ENGINES  
 0104 2801 2805  
 UP DART TURBOPROP ENGINES  
 NT T-34 ENGINE  
 T-38 ENGINE  
 T-53 ENGINE  
 T-56 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-78 ENGINE  
 BT AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 TURBINE ENGINES  
 TURBOJET ENGINES  
 RT C-160 AIRCRAFT  
 E-2 AIRCRAFT  
 P-3 AIRCRAFT  
 P-3 AIRCRAFT  
 TURBOPAN ENGINES  
 TURBOPROP AIRCRAFT  
 IC-142 AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

# TUTOR AIRCRAFT

**TURBOPUMPS**  
 USE TURBINE PUMPS  
**TURBORAMJET ENGINES**  
 0202 2801 2805  
 BT AIR BREATHING ENGINES  
 #ENGINES  
 GAS TURBINE ENGINES  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 RAMJET ENGINES  
 TURBINE ENGINES  
**TURBOROCKET ENGINES**  
 2801 2805 2808  
 BT #ENGINES  
 TORPEDO ENGINES  
 RT BOOSTER ROCKET ENGINES  
 HYDRAZINE ENGINES  
 HYDROGEN OXYGEN ENGINES  
 LIQUID AIR CYCLE ENGINES  
 RESTARTABLE ROCKET ENGINES  
 SUSTAINER ROCKET ENGINES  
**TURBOROTORS**  
 USE TURBINE WHEELS  
**TURBOSHAPTS**  
 0102 1504 2806  
 BT #ROTATING SHAFTS  
 SHAFTS (MACHINE ELEMENTS)  
 RT ROTORS  
 TURBINES  
**TURBOSUPERCHARGERS**  
 USE SUPERCHARGERS  
 TURBOCOMPRESSORS  
**\*TURBULENCE**  
 0101 1202 1308 2003 3408  
 NT ATMOSPHERIC TURBULENCE  
 CLEAR AIR TURBULENCE  
 GUSTS  
 HOMOGENEOUS TURBULENCE  
 ISOTROPIC TURBULENCE  
 LOW LEVEL TURBULENCE  
 LOW TURBULENCE  
 MAGNETOHYDRODYNAMIC TURBULENCE  
 PLASMA TURBULENCE  
 RT AERODYNAMIC DRAG  
 BACKWASH  
 BOUNDARY LAYER CONTROL  
 BOUNDARY LAYER TRANSITION  
 FLOW CHARACTERISTICS  
 FLUID DYNAMICS  
 GAS STREAMS  
 MICROMETEOROLOGY  
 MIXING  
 MOTION  
 NONUNIFORMITY  
 SEA ROUGHNESS  
 SLIPSTREAMS  
 STEADY FLOW  
 STROUHAL NUMBER  
 TURBULENCE EFFECTS  
 TURBULENT BOUNDARY LAYER  
 TURBULENT FLOW  
 UNSTEADY FLOW  
 VERTICAL AIR CURRENTS  
 VORTICES  
 VORTICITY  
 #WAKES  
 WIND EFFECTS  
**TURBULENCE EFFECTS**  
 0101 1201 1202 1203  
 RT AERODYNAMIC STABILITY  
 BUDDING  
 EFFECTS  
 FLUTTER  
 SEPARATED FLOW  
 #TURBULENCE  
**TURBULENCE METERS**  
 0101 1202 1203 1406  
 UP HOT-WIRE TURBULENCE METERS  
 RT #MEASURING INSTRUMENTS  
 RT HOT-WIRE FLOWMETERS  
**TURBULENT AIR CURRENTS**  
 USE AIR CURRENTS  
 TURBULENT FLOW  
**TURBULENT BOUNDARY LAYER**  
 0101 1201 1202 1203  
 BT BOUNDARY LAYERS  
 RT BOUNDARY LAYER TRANSITION  
 COMPRESSIBLE BOUNDARY LAYER  
 HYPERSONIC BOUNDARY LAYER  
 LAMINAR BOUNDARY LAYER  
 SUPERSONIC BOUNDARY LAYERS  
 THERMAL BOUNDARY LAYER  
 THREE DIMENSIONAL BOUNDARY LAYER  
 #TURBULENCE  
**TURBULENT DIFFUSION**  
 2401 2402 2403  
 UP EDDY DIFFUSION  
 BT #DIFFUSION  
 RT ATMOSPHERIC DIFFUSION  
 ATMOSPHERIC TURBULENCE  
 CLEAR AIR TURBULENCE  
 COUNTERFLOW  
 TURBULENT HEAT TRANSFER  
 TURBULENT MIXING  
**TURBULENT FLOW**  
 0101 1202 1308 2003  
 UP NONVISCOUS FLOW  
 TURBULENT AIR CURRENTS  
 NT CAVITATION FLOW  
 SUPERCavitating FLOW  
 BT #FLUID FLOW  
 RT AERODYNAMICS  
 ANNULAR FLOW  
 ATMOSPHERIC TURBULENCE  
 BLASIUS FLOW  
 BOUNDARY LAYER TRANSITION  
 CLOSURE LAW  
 COMBUSTIBLE FLOW  
 COUNTERFLOW  
 CRITICAL FLOW  
 EDDY VISCOSITY  
 FLOW CHARACTERISTICS  
 FLOW STABILITY  
 FLUID AMPLIFIERS  
 FLUID DYNAMICS  
 FREE CONVECTION  
 GAS FLOW  
 GUST ALLEVIATORS  
 INVISCID FLOW  
 ISOTROPIC TURBULENCE  
 KOLMOGOROFF THEORY  
 LAGRANGE SIMILARITY HYPOTHESIS  
 LAMINAR FLOW  
 LIQUID FLOW  
 MASS FLOW  
 MIXING LENGTH FLOW THEORY  
 MULTIPHASE FLOW  
 NONUNIFORM FLOW  
 OPEN CHANNEL FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE OSCILLATIONS  
 RECIRCULATIVE FLUID FLOW  
 REYNOLDS NUMBER  
 ROTATING FLUIDS  
 SINGLE-PHASE FLOW  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TOLLMER-SCHLICHTING WAVES  
 TRANSITION LAYERS  
 #TURBULENCE  
 TURBULENT JETS  
 TURBULENT MIXING  
 TURBULENT WAKES  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 VISCOUS DRAG  
 VISCOUS FLOW  
 VORTEX BREAKDOWN  
 VORTICES  
 VORTICITY TRANSPORT HYPOTHESIS  
**TURBULENT HEAT TRANSFER**  
 3303  
 BT HEAT TRANSFER  
 HEAT TRANSMISSION  
 #TRANSMISSION  
 RT AERODYNAMIC HEAT TRANSFER  
 CONVECTIVE HEAT TRANSFER  
 LAMINAR HEAT TRANSFER  
 TURBULENT DIFFUSION  
**TURBULENT JETS**  
 1201 1202 1203  
 RT FLUID AMPLIFIERS  
 JET STREAMS (METEOROLOGY)  
 JETS  
 TURBULENT FLOW  
 TURBULENT MIXING  
 TURBULENT WAKES  
**TURBULENT MIXING**  
 0201 1201 1202 1203 3009  
 BT MIXING  
 RT AGITATION  
 LAMINAR MIXING  
 MIXING LENGTH FLOW THEORY  
 RECIRCULATIVE FLUID FLOW  
 TURBULENT DIFFUSION  
 TURBULENT FLOW  
 TURBULENT JETS  
 TURBULENT WAKES  
 VORTICES  
**TURBULENT WAKES**  
 0101 0201 1203  
 UP SWIRLING WAKES  
 NT PROPELLER SLIPSTREAMS  
 SLIPSTREAMS  
 BT #WAKES  
 RT AIRCRAFT WAKES  
 LAMINAR WAKES  
 TURBULENT FLOW  
 TURBULENT JETS  
 TURBULENT MIXING  
 VORTEX SHEETS  
 VORTEX STREETS  
**TURING MACHINES**  
 0801 0802 1504  
 UP FINITE-STATE MACHINES  
 RT AUTOMATA THEORY  
 DIGITAL COMPUTERS  
 MACHINERY  
 #MATHEMATICAL LOGIC  
 SELF ORGANIZING SYSTEMS  
**TURKEY**  
 1305  
 RT EUROPE  
 NATIONS  
**TURKEYS**  
 0402  
 BT #ANIMALS  
 BIRDS  
 VERTEBRATES  
**TURNING FLIGHT**  
 0201 1504 1704 3407  
 UP BANKING FLIGHT  
 NT MINOR CIRCLE TURNING FLIGHT  
 RT AERODYNAMIC BALANCE  
 AIRCRAFT STABILITY  
 CLIMBING FLIGHT  
 FLIGHT  
 FLIGHT PATHS  
 HORIZONTAL FLIGHT  
 LATERAL OSCILLATION  
 LATERAL STABILITY  
 #MANEUVERS  
 MOMENTUM  
 ROLL  
 YAW  
**TURNSTILE ANTENNAS**  
 0701 0705 0901  
 BT ANTENNA ARRAYS  
 ANTENNAS  
 #ARRAYS  
 #CONDUCTORS  
 OMNIDIRECTIONAL ANTENNAS  
 RT DIPOLE ANTENNAS  
 GRIDS  
 WIRE GRID LENSES  
**TURPENTINE**  
 1808  
 BT SOLVENTS  
 TERPENES  
 RT PAINTS  
**TURRET**  
 3203 3401  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT GUN TURRETS  
 TURRET LATHES  
**TURRET LATHES**  
 1504  
 BT LATHES  
 MACHINE TOOLS  
 #TOOLS  
 RT TURRET  
**TURTLES**  
 0402  
 BT #ANIMALS  
 MAMMALS  
 POIKILOthermia  
 REPTILES  
 VERTEBRATES  
**TUTOR AIRCRAFT**  
 USE CL-41 AIRCRAFT

# TVC (CONTROL)

**TVC (CONTROL)**  
 USE THRUST VECTOR CONTROL  
**TWENTY-FOUR HOUR ORBITS**  
 1904 3006 3107  
 BT #ORBITS  
 SATELLITE ORBITS  
 SPACECRAFT ORBITS  
 RT CIRCULAR ORBITS  
 EARTH ORBITS  
 EQUATORIAL ORBITS  
 ORBITAL MECHANICS  
 PAS  
 PLANETARY ORBITS  
 POLAR ORBITS  
 STATIONARY ORBITS  
 SYNCHRONOUS COMMUNICATIONS  
 SATELLITE PROJ  
 SYNCHRONOUS SATELLITES  
**TWENTY-SEVEN DAY VARIATION**  
 1901 3001 3003  
 BT #VARIATIONS  
 RT SOLAR CYCLES  
 SOLAR ROTATION  
 SUNSPOTS  
**TWILIGHT**  
 USE TWILIGHT GLOW  
**TWILIGHT GLOW**  
 2003 2902 3001  
 UP TWILIGHT  
 BT AIRGLOW  
 #ATMOSPHERIC RADIATION  
 #ELECTROMAGNETIC RADIATION  
 LIGHT (VISIBLE RADIATION)  
 SKY RADIATION  
 RT DAYGLOW  
 NIGHT  
 NIGHT SKY  
**TWINNING**  
 1806 2601  
 NT MECHANICAL TWINNING  
 RT CRYSTAL DEFECTS  
 CRYSTAL GROWTH  
 CRYSTAL STRUCTURE  
 GRAIN BOUNDARIES  
 STACKING FAULT ENERGY  
**TWISTED WINGS**  
 0102 0104 0201 0202  
 BT #AIRFOILS  
 WINGS  
 RT CAMBERED WINGS  
 FIXED WINGS  
 FLEXIBLE WINGS  
 RING WINGS  
 UNCAMBERED WINGS  
**TWISTING**  
 2308 3203  
 UP PRETWISTING  
 RT BENDING  
 BUCKLING  
 #DEFORMATION  
 DISTORTION  
 STRUCTURAL STRAIN  
 TORQUE  
 TORSION  
 TORSIONAL VIBRATION  
 WARPAGE  
 WINDING  
**TWITCHING**  
 0408 3407  
 RT MUSCLES  
 MUSCULAR FUNCTION  
**TWO BODY ORBITS**  
 USE TWO BODY PROBLEM  
**TWO BODY PROBLEM**  
 1309 1901 1902 1904 3001 3006  
 UP TWO BODY ORBITS  
 RT BINARY STARS  
 CELESTIAL MECHANICS  
 EARTH-MOON SYSTEM  
 HYLLEBRAS COORDINATES  
 MANY BODY PROBLEM  
 ORBITAL MECHANICS  
 #ORBITS  
 #PERTURBATION  
 PROBLEMS  
 ROCHE LIMIT  
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RT AERODYNAMICS  
FLUID DYNAMICS  
GAS FLOW  
HEAT TRANSMISSION  
LAMINAR FLOW  
LIQUID FLOW  
MASS FLOW  
MULTIPHASE FLOW  
NONUNIFORM FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
QUASI-STEADY STATES  
SINGLE-PHASE FLOW  
SOLIDS FLOW  
STEADY FLOW  
STEAM FLOW  
SUBCRITICAL FLOW  
TURBULENT FLOW  
UNSTEADY FLOW  
UNIMOLECULAR STRUCTURES  
0603 2404  
RT MOLECULAR STRUCTURE

STRUCTURES  
UNIONIZATION  
3402 3404 3406  
RT FEDERATIONS  
ORGANIZING  
#PERSONNEL  
UNIONS  
UNIONS  
1504 3404 3406  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT BOOLEAN ALGEBRA  
UNIONIZATION  
UNIONS (CONNECTORS)  
UNIONS (CONNECTORS)  
1504  
BT CONNECTORS  
RT COUPLINGS  
#FASTENERS  
FITTINGS  
#JOINTS (JUNCTIONS)  
LINKAGES  
UNIONS  
UNIPOLAR TRANSISTORS  
USE FIELD EFFECT TRANSISTORS  
UNIQUENESS  
1902 3408  
RT #ABNORMALITIES  
SINGULARITY (MATHEMATICS)  
UNIQUENESS THEOREM  
1902  
BT #THEOREMS  
RT #ALGEBRA  
COMPLEX VARIABLES  
#GEOMETRY  
#NUMBER THEORY  
PROBABILITY THEORY  
REAL VARIABLES  
UNITED NATIONS  
3403  
RT #COMMUNITIES  
FEDERATIONS  
INTERNATIONAL COOPERATION  
INTERNATIONAL LAW  
NATIONS  
#ORGANIZATIONS  
POLITICS  
UNITED STATES OF AMERICA  
1305  
UF USA (UNITED STATES)  
RT ALABAMA  
ALASKA  
ARIZONA  
ARKANSAS  
CALIFORNIA  
COLORADO  
CONNECTICUT  
DELAWARE  
FLORIDA  
GEORGIA  
HAWAII  
IDAHO  
ILLINOIS  
INDIANA  
IOWA  
KANSAS  
KENTUCKY  
LOUISIANA  
MAINE  
MARYLAND  
MASSACHUSETTS  
MICHIGAN  
MINNESOTA  
MISSISSIPPI  
MISSOURI  
MONTANA  
NEBRASKA  
NEVADA  
NEW HAMPSHIRE  
NEW JERSEY  
NEW MEXICO  
NEW YORK  
NORTH CAROLINA  
NORTH DAKOTA  
OHIO  
OKLAHOMA  
OREGON  
PENNSYLVANIA  
RHODE ISLAND  
SOUTH CAROLINA  
SOUTH DAKOTA

# UNIVAC COMPUTERS

TENNESSEE  
TEXAS  
UTAH  
VERMONT  
VIRGINIA  
WASHINGTON  
WEST VIRGINIA  
WISCONSIN  
WYOMING  
RT CONGRESS  
DISTRICT OF COLUMBIA  
NATIONS  
NORTH AMERICA  
UNITS OF MEASUREMENT  
1406  
NT INTERNATIONAL SYSTEM OF UNITS  
RT CONVERSION TABLES  
DIMENSIONAL ANALYSIS  
#DIMENSIONS  
MEASUREMENT  
METROLOGY  
MONTH  
PARAMETERIZATION  
SYMBOLS  
#TIME  
UNITY  
3408  
RT HOMOGENEITY  
#STABILITY  
UNIVAC 80 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 418 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 490 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 1005 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 1105 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 1107 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 1108 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 1824 COMPUTER  
0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS  
UNIVAC 80 COMPUTER  
UNIVAC 418 COMPUTER  
UNIVAC 490 COMPUTER  
UNIVAC 1005 COMPUTER  
UNIVAC 1105 COMPUTER  
UNIVAC 1107 COMPUTER  
UNIVAC 1108 COMPUTER  
UNIVAC 1824 COMPUTER  
UNIVAC LARC COMPUTER  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
RT DIGITAL COMPUTERS

# UNIVAC LARC COMPUTER

## UNIVAC LARC COMPUTER

0801  
BT COMPUTERS  
#DATA PROCESSING EQUIPMENT  
DIGITAL COMPUTERS  
UNIVAC COMPUTERS

## UNIVERSAL TIME

3408  
BT #TIME  
RT EPHMERIS TIME

## UNIVERSE

3001 3002 3003 3009  
UP METAGALAXY  
RT #CELESTIAL BODIES  
COSMOLOGY  
COSMOS

## UNIVERSITIES

0502 3404  
UP COLLEGES  
RT #EDUCATION  
INSTRUCTORS  
#LEARNING  
SCHOOLS  
STUDENTS

## UNIVERSITY PROGRAM

3404 3409  
BT #PROGRAMS  
RT BUREAUS (ORGANIZATIONS)  
#INVESTIGATION  
NASA PROGRAMS  
TEAMS

## UNKNOWN

USE DEPENDENT VARIABLES  
PROBLEM SOLVING

## UNLOADING

0101 0201 3203  
RT DISCHARGE  
DISPOSAL  
DUMPING  
EJECTION  
EMPTYING  
EVACUATING (TRANSPORTATION)  
EXPULSION  
LOADING OPERATIONS  
MATERIALS HANDLING  
RELEASING  
REMOVAL  
SPREADING

## UNLOADING WAVES

0710 3203  
BT #ELASTIC WAVES

## #UNMANNED SPACECRAFT

3101 3107 3110  
RT ANNA SATELLITES  
AOSO  
BEACON EXPLORER A  
BEACON SATELLITES  
BIOSATELLITE 1  
BIOSATELLITE 2  
BIOSATELLITE 3  
BIOSATELLITES  
ECHO 1 SATELLITE  
ECHO 2 SATELLITE  
ECHO SATELLITES  
EXPLORER 18 SATELLITE  
EXPLORER 22 SATELLITE  
EXPLORER 29 SATELLITE  
EXPLORER 36 SATELLITE  
GEODETIC SATELLITES  
GEOS-C SATELLITE  
GEOS 1 SATELLITE  
GEOS 2 SATELLITE  
JUPITER PROBES  
LARGOS SATELLITE  
LUNAR PROBES  
LUNIK 1 LUNAR PROBE  
LUNIK 2 LUNAR PROBE  
LUNIK 3 LUNAR PROBE  
LUNIK 4 LUNAR PROBE  
LUNIK 9 LUNAR PROBE  
LUNIK 10 LUNAR PROBE  
LUNIK 11 LUNAR PROBE  
LUNIK 12 LUNAR PROBE  
LUNIK 13 LUNAR PROBE  
LUNIK 14 LUNAR PROBE  
LUNIK LUNAR PROBES  
MARINER C SPACECRAFT  
MARINER-MERCURY 1973  
MARINER R 1 SPACE PROBE  
MARINER R 2 SPACE PROBE  
MARINER 1 SPACE PROBE  
MARINER 2 SPACE PROBE

MARINER 3 SPACE PROBE  
MARINER 4 SPACE PROBE  
MARINER 5 SPACE PROBE  
MARINER 11 SPACE PROBE  
MARINER SPACE PROBES  
MARINER SPACECRAFT  
MARINER VENUS-MERCURY 1973  
MARINER VENUS 67 SPACECRAFT  
MARS PROBES  
MARS 1 SPACECRAFT  
NAVIGATION SATELLITES  
NAVSTAR SATELLITES

## OSO

OSO-B  
OSO-C  
OSO-D  
OSO-E  
OSO-F  
OSO-G  
OSO-H  
OSO-1  
OSO-2  
OSO-3

## PAGEOS SATELLITE

## PASSIVE SATELLITES

PIONEER 1 SPACE PROBE  
PIONEER 2 SPACE PROBE  
PIONEER 3 SPACE PROBE  
PIONEER 4 SPACE PROBE  
PIONEER 5 SPACE PROBE  
PIONEER 6 SPACE PROBE  
PIONEER 7 SPACE PROBE  
PIONEER 8 SPACE PROBE  
PIONEER 9 SPACE PROBE  
PIONEER SPACE PROBES

## POLYOT SATELLITES

## RANGER LUNAR LANDING VEHICLES

RANGER 1 LUNAR PROBE  
RANGER 2 LUNAR PROBE  
RANGER 3 LUNAR PROBE  
RANGER 4 LUNAR PROBE  
RANGER 5 LUNAR PROBE  
RANGER 6 LUNAR PROBE  
RANGER 7 LUNAR PROBE  
RANGER 8 LUNAR PROBE  
RANGER 9 LUNAR PROBE  
RANGER 10 LUNAR PROBE  
RANGER LUNAR PROBES  
SOLAR OBSERVATORIES  
SOLAR PROBES

## SPACE PROBES

## SUNBLAZER SPACE PROBE

## SURVEYOR 1 LUNAR PROBE

## SURVEYOR 2 LUNAR PROBE

## SURVEYOR 3 LUNAR PROBE

## SURVEYOR 4 LUNAR PROBE

## SURVEYOR 5 LUNAR PROBE

## SURVEYOR 6 LUNAR PROBE

## SURVEYOR LUNAR PROBES

## TECHNOLOGY FEASIBILITY SPACECRAFT

## TRANSIT 1A SATELLITE

## TRANSIT 2A SATELLITE

## TRANSIT 4A SATELLITE

## TRANSIT 5A SATELLITE

## TRANSIT ATTITUDE CONTROL SATELLITE

## TRANSIT 1B SATELLITE

## TRANSIT 3B SATELLITE

## TRANSIT 4B SATELLITE

## TRANSIT SATELLITES

## VANGUARD 1 SATELLITE

## VENERA 2 SATELLITE

## VENERA 3 SATELLITE

## VENERA 4 SATELLITE

## VENERA 5 SATELLITE

## VENERA 6 SATELLITE

## VENERA SATELLITES

## VENUS PROBES

## ZOND 1 SPACE PROBE

## ZOND 2 SPACE PROBE

## ZOND 3 SPACE PROBE

## ZOND 4 SPACE PROBE

## ZOND 5 SPACE PROBE

## ZOND 6 SPACE PROBE

## ZOND 7 SPACE PROBE

## ZOND SPACE PROBES

## ARTIFICIAL SATELLITES

## COMMUNICATION SATELLITES

## EARTH SATELLITES

## GEOPHYSICAL SATELLITES

## GRAVITY GRADIENT SATELLITES

## INFLATABLE SPACECRAFT

## #INTERPLANETARY SPACECRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

## LUNAR LANDING MODULES

## LUNAR SATELLITES

## #LUNAR SPACECRAFT

## #MANNED SPACECRAFT

## MARINER PROGRAM

## METEOROLOGICAL SATELLITES

## #MILITARY SPACECRAFT

## RECONNAISSANCE SPACECRAFT

## RECOVERABLE SPACECRAFT

## RENDEZVOUS SPACECRAFT

## REUSABLE SPACECRAFT

## #SATELLITES

## SIRS B SATELLITE

## #SPACE CAPSULES

## SPACECRAFT

## VIKING LANDER SPACECRAFT

## VIKING ORBITER SPACECRAFT

## VOYAGER PROJECT

## UNSTABLE BURNING

## USE COMBUSTION STABILITY

## UNSTEADY FLOW

## 0101 1202 1203 2502 3303 3304

## UP PULSATING FLOW

## NT OSCILLATING FLOW

## BT #FLUID FLOW

## RT AERODYNAMICS

## CRITICAL FLOW

## FLOW STABILITY

## FLOW VELOCITY

## FLUID DYNAMICS

## GAS FLOW

## HEAT TRANSMISSION

## LAMINAR FLOW

## LIQUID FLOW

## MASS FLOW

## METHOD OF CHARACTERISTICS

## MULTIPHASE FLOW

## NONEQUILIBRIUM FLOW

## NONNEWTONIAN FLOW

## NONUNIFORM FLOW

## ORIFICE FLOW

## PIPE FLOW

## PRESSURE GRADIENTS

## SINGLE-PHASE FLOW

## SOLIDS FLOW

## STEADY FLOW

## STEADY STATE

## STEAM FLOW

## STROUHAL NUMBER

## SUBCRITICAL FLOW

## SUPERCRITICAL FLOW

## #TURBULENCE

## UNIFORM FLOW

## UNSTEADY STATE

## UNSTEADY FLOW

## 1003 1202 1303 2311

## RT EQUILIBRIUM

## FLUID DYNAMICS

## METASTABLE STATE

## #STABILITY

## STEADY STATE

## SYSTEMS STABILITY

## THERMODYNAMICS

## UNSTEADY FLOW

## UNSWEPT WINGS

## 0102 0104 0202

## NT RECTANGULAR WINGS

## RING WINGS

## BT #AIRFOILS

## WINGS

## RT FIXED WINGS

## SWEPT WINGS

## WING PLANFORMS

## UPCONVERTERS

## USE PARAMETRIC FREQUENCY CONVERTERS

## UPDRAFTS

## USE VERTICAL AIR CURRENTS

## UPGRADING

## 3404 3405 3406

## RT BENEFICIATION

## CONCENTRATING

## ENRICHMENT

## EXPERIENCE

## IMPROVEMENT

## PROMOTION

## PUBLIC RELATIONS

## PURIFICATION

## QUALITY

## REFINING

## UPPER AIR

## USE UPPER ATMOSPHERE

# NASA THESAURUS (ALPHABETICAL LISTING)

UPPER ATMOSPHERE  
1302 2003  
UF UPPER AIR  
RT AERONOMY  
CHEMOSPHERE  
HETEROSPHERE  
HIGH ALTITUDE  
HOMOSPHERE  
METEOR TRAILS  
METEOROLOGICAL BALLOONS  
OZONOSPHERE  
PROTON PRECIPITATION  
RADIATION BELTS  
UPPER IONOSPHERE  
1302 2003  
RT E REGION  
UPSETTING  
0408 0410  
RT DISORDERS  
EMOTIONS  
HUMAN REACTIONS  
VACILLATION  
UPSTREAM  
2003  
UF WINDWARD  
RT WIND DIRECTION  
UPWASH  
0101 1203  
RT DOWNWASH  
DRAFT  
INTERFERENCE DRAG  
INTERFERENCE LIFT  
URACIL  
0403 1808  
BT #HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
PYRIMIDINES  
RT URIDYLIC ACID  
URANIUM  
0603 1703 2406  
NT URANIUM ISOTOPES  
URANIUM 232  
URANIUM 233  
URANIUM 234  
URANIUM 235  
URANIUM 238  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
#METALS  
RT FISSIONABLE MATERIALS  
NUCLEAR FUELS  
URANIUM ALLOYS  
1701 1704 2203  
BT #ALLOYS  
RT NUCLEAR FUEL ELEMENTS  
NUCLEAR FUELS  
URANIUM CARBIDES  
0603 1804 2203  
BT #ACTINIDE SERIES COMPOUNDS  
CARBIDES  
#CARBON COMPOUNDS  
URANIUM COMPOUNDS  
RT CERAMIC NUCLEAR FUELS  
NUCLEAR FUEL ELEMENTS  
NUCLEAR FUELS  
URANIUM COMPOUNDS  
0603 1804 2203  
NT URANIUM CARBIDES  
URANIUM FLUORIDES  
URANIUM OXIDES  
BT #ACTINIDE SERIES COMPOUNDS  
RT CERAMIC NUCLEAR FUELS  
METAL COMPOUNDS  
NUCLEAR FUELS  
URANIUM FLUORIDES  
0603 1804 2203  
BT #ACTINIDE SERIES COMPOUNDS  
FLUORIDES  
#FLUORINE COMPOUNDS  
HALIDES  
#HALOGEN COMPOUNDS  
METAL HALIDES  
URANIUM COMPOUNDS  
URANIUM ISOTOPES  
1704 1804 2406  
NT URANIUM 232  
URANIUM 233  
URANIUM 234  
URANIUM 235  
URANIUM 238  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS

ISOTOPES  
NUCLIDES  
URANIUM  
URANIUM OXIDES  
0603 1804 2203  
BT #ACTINIDE SERIES COMPOUNDS  
#CHALCOGENIDES  
METAL OXIDES  
OXIDES  
URANIUM COMPOUNDS  
RT CERAMIC NUCLEAR FUELS  
NUCLEAR FUELS  
URANIUM 232  
0603 1703 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
URANIUM  
URANIUM ISOTOPES  
URANIUM 233  
1703 2203 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
URANIUM  
URANIUM ISOTOPES  
RT NUCLEAR FUELS  
URANIUM 234  
1703 2203 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
URANIUM  
URANIUM ISOTOPES  
URANIUM 235  
1703 2203 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
URANIUM  
URANIUM ISOTOPES  
RT NUCLEAR FUELS  
URANIUM 238  
1703 2203 2406  
BT ACTINIDE SERIES  
#CHEMICAL ELEMENTS  
ISOTOPES  
NUCLIDES  
RADIOACTIVE ISOTOPES  
URANIUM  
URANIUM ISOTOPES  
RT NUCLEAR FUELS  
URANUS (PLANET)  
1901 3001 3007 3008  
BT #CELESTIAL BODIES  
PLANETS  
URBAN DEVELOPMENT  
3403 3406  
RT CITIES  
#COMMUNITIES  
DEVELOPMENT  
LAND USE  
OPERATIONS RESEARCH  
PLANNING  
PLANS  
#RESOURCES  
TECHNOLOGIES  
URBAN PLANNING  
URBAN PLANNING  
3402 3403 3406  
BT PLANNING  
RT CITIES  
#COMMUNITIES  
HIGHWAYS  
LAND USE  
RECREATION  
SOCIAL FACTORS  
SOCIOLOGY  
STREETS  
URBAN DEVELOPMENT  
URBAN RESEARCH  
URBAN TRANSPORTATION  
URBAN RESEARCH  
3403  
RT CITIES  
#COMMUNITIES

## UROLOGY

LAND USE  
RECREATION  
SOCIAL FACTORS  
STREETS  
URBAN PLANNING  
URBAN TRANSPORTATION  
URBAN TRANSPORTATION  
1101 1103 3406  
RT RAIL TRANSPORTATION  
BT #TRANSPORTATION  
RT RAPID TRANSIT SYSTEMS  
#SURFACE VEHICLES  
URBAN PLANNING  
URBAN RESEARCH  
UREAS  
0403 0505 1808  
RT DIPLOUROUREA  
PSEUDOURREA  
THIOUREAS  
THIURONIUM  
BT AMIDES  
#NITROGEN COMPOUNDS  
RT DIURETICS  
FERTILIZERS  
URINE  
URETHANES  
1808  
BT #ALIPHATIC COMPOUNDS  
CARBAMATES (TRADENAME)  
#ESTERS  
INSECTICIDES  
#POISONS  
URIC ACID  
0403 1808  
BT #ACIDS  
#FUNGICIDES  
#HETEROCYCLIC COMPOUNDS  
#NITROGEN COMPOUNDS  
#PURINES  
XANTHINES  
URIDYLIC ACID  
0403 1808  
BT #ACIDS  
AMINO ACIDS  
NUCLEIC ACIDS  
NUCLEOTIDES  
#ORGANIC COMPOUNDS  
ORGANIC PHOSPHORUS COMPOUNDS  
PHOSPHATES  
#PHOSPHORUS COMPOUNDS  
#PROTEINS  
RT URACIL  
URINALYSIS  
0403 0405 0505 0602  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT DIABETES MELLITUS  
PHYSIOLOGICAL TESTS  
URINE  
URINATION  
0404 0408 0505  
UF MICTURITION  
RT DIURESIS  
URINE  
WATER BALANCE  
URINE  
0403 0404 0505  
BT #BODY FLUIDS  
HUMAN WASTES  
METABOLIC WASTES  
#WASTES  
RT ANTIDIURETICS  
CREATININE  
EXCRETION  
FECES  
HEMATURIA  
KIDNEYS  
UREAS  
URINALYSIS  
URINATION  
UROGRAPHY  
0405 0501  
BT #IMAGERY  
#PHOTOGRAPHY  
RADIOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
UROLITHIASIS  
0405 0408  
BT #DISEASES  
UROLOGY  
0404 0405  
BT #MEDICAL SCIENCE

US-2A AIRCRAFT

RT BLADDER  
GENITOURINARY SYSTEM  
KIDNEYS

US-2a AIRCRAFT

0201

RT AIRCRAFT

USA (UNITED STATES)

USE UNITED STATES OF AMERICA

USNS KINGSPORT

USE SATELLITE COMMUNICATIONS SHIPS

UTAH

1305

RT UNITED STATES OF AMERICA

UTERUS

0404

RT #ANATOMY  
GENITOURINARY SYSTEM  
REPRODUCTIVE SYSTEMS

UTILITIES

3408

RT ELECTRIC EQUIPMENT

UTILITY AIRCRAFT

0204 0207

UP AGRICULTURAL AIRCRAFT

NT BO-105 HELICOPTER

C-140 AIRCRAFT

DHC 4 AIRCRAFT

DHC 5 AIRCRAFT

DO-27 AIRCRAFT

DO-28 AIRCRAFT

HC-3 HELICOPTER

HH-43 HELICOPTER

KH-4 HELICOPTER

OH-13 HELICOPTER

OH-23 HELICOPTER

P-531 HELICOPTER

PD-808 AIRCRAFT

S-2 AIRCRAFT

SAAB 105 AIRCRAFT

SIEMETZKI T-3 HELICOPTER

T-39 AIRCRAFT

U-2 AIRCRAFT

U-3 AIRCRAFT

U-10 AIRCRAFT

UH-1 HELICOPTER

UH-2 HELICOPTER

UH-34 HELICOPTER

V-2 HELICOPTER

WESTLAND WHIRLWIND HELICOPTER

Z-37 AIRCRAFT

RT AIRCRAFT

BIPLANES

CARGO AIRCRAFT

#COMMERCIAL AIRCRAFT

GENERAL AVIATION AIRCRAFT

HELICOPTERS

LIGHT AIRCRAFT

MILITARY AIRCRAFT

OBSERVATION AIRCRAFT

RECONNAISSANCE AIRCRAFT

SUBSONIC AIRCRAFT

TERRAIN FOLLOWING AIRCRAFT

#TRANSPORT AIRCRAFT

#V/STOL AIRCRAFT

WATER TAKEOFF AND LANDING AIRCRAFT

UTILIZATION

3404 3408

UP APPLICATION

NT REUSE

RT WASTE UTILIZATION

RT CONSUMPTION

DEPLETION

#EFFICIENCY

TECHNOLOGY UTILIZATION

UTRICLE

0404 0405 0409

RT #PLANTS (BOTANY)

SEEDS

**V**

V-3 AIRCRAFT  
USE XV-3 AIRCRAFT

V-4 AIRCRAFT  
USE XV-4 AIRCRAFT

V-5 AIRCRAFT  
USE XV-5 AIRCRAFT

V-9 AIRCRAFT  
USE XV-9A AIRCRAFT

V BAND  
USE EXTREMELY HIGH FREQUENCIES

V GROOVES  
1504 1704 3203  
BT GROOVES  
RT #MACHINING NOTCHES

V-2 HELICOPTER  
0206  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT

V-1 MISSILE  
3101 3106  
BT #MISSILES  
SURFACE TO SURFACE MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES  
PULSEJET ENGINES

V-2 MISSILE  
3101 3401  
BT BALLISTIC MISSILES  
#MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES

#V/STOL AIRCRAFT  
0209 3404  
UP CONVERTAPLANES  
STEEP GRADIENT AIRCRAFT

NT ALOUETTE HELICOPTERS  
AUTOGYROS  
AVIAN 2/180 AUTOGIRO  
BENSEN B-8M AUTOGIRO  
BO-105 HELICOPTER  
BO P-310 HELICOPTER  
BREGUET 940 AIRCRAFT  
BREGUET 941 AIRCRAFT  
BREGUET 942 AIRCRAFT  
C-123 AIRCRAFT  
CH-3 HELICOPTER  
CH-21 HELICOPTER  
CH-34 HELICOPTER  
CH-46 HELICOPTER  
CH-47 HELICOPTER  
CH-54 HELICOPTER  
CL-84 AIRCRAFT  
COMPOUND HELICOPTERS  
DHC 4 AIRCRAFT  
DHC 5 AIRCRAFT  
DO-29 AIRCRAFT  
DO-31 AIRCRAFT  
F-28 HELICOPTER  
FIAT 7002 HELICOPTER  
FLYING PLATFORMS  
G-95/4 AIRCRAFT  
G-222 AIRCRAFT  
GRASSHOPPER HELICOPTER  
H-17 HELICOPTER  
H-25 HELICOPTER  
H-43 HELICOPTER  
H-53 HELICOPTER  
H-54 HELICOPTER  
H-56 HELICOPTER  
HC-3 HELICOPTER  
HELICOPTERS  
HH-43 HELICOPTER  
HILLER 1098 CONVERTAPLANE  
HILLER 1123 HELICOPTER  
KH-4 HELICOPTER  
MILITARY HELICOPTERS  
NH-41 HELICOPTER  
OH-4 HELICOPTER  
OH-5 HELICOPTER  
OH-6 HELICOPTER  
OH-13 HELICOPTER  
OH-23 HELICOPTER  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT  
P-531 HELICOPTER  
QH-50 HELICOPTER  
RP-1 AIRCRAFT  
RIGID ROTOR HELICOPTERS  
ROTARY WING AIRCRAFT

S-61 HELICOPTER  
SA-330 HELICOPTER  
SA-3210 HELICOPTER  
SC-1 AIRCRAFT  
SE-3160 HELICOPTER  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
SH-34 HELICOPTER  
SHORT TAKEOFF AIRCRAFT  
SIAT 311 AIRCRAFT  
SIEMETSKI T-3 HELICOPTER  
SIKORSKY WHIRLWIND HELICOPTER  
TANDEM ROTOR HELICOPTERS  
TH-55 HELICOPTER  
U-10 AIRCRAFT  
UH-1 HELICOPTER  
UH-2 HELICOPTER  
UH-34 HELICOPTER  
V-2 HELICOPTER  
VERTICAL TAKEOFF AIRCRAFT  
VJ-101 AIRCRAFT  
VZ-2 AIRCRAFT  
VZ-3 AIRCRAFT  
VZ-8 AIRCRAFT  
WA-116 AUTOGIRO  
WESTLAND WHIRLWIND HELICOPTER  
WF S-64 HELICOPTER  
X-22A AIRCRAFT  
X-13 AIRCRAFT  
X-14 AIRCRAFT  
X-19 AIRCRAFT  
X-22 AIRCRAFT  
XH-51 HELICOPTER  
XV-8A AIRCRAFT  
XV-9A AIRCRAFT  
XV-11A AIRCRAFT  
XV-3 AIRCRAFT  
XV-4 AIRCRAFT  
XV-5 AIRCRAFT

RT AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
ATTACK AIRCRAFT  
#COMMERCIAL AIRCRAFT  
DRONE AIRCRAFT  
FAN IN WING AIRCRAFT  
FIGHTER AIRCRAFT  
GROUND EFFECT MACHINES  
H-19 HELICOPTER  
HELIPORTS  
HOVERING  
#JET AIRCRAFT  
MILITARY AIRCRAFT  
PASSENGER AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
SHORT HAUL AIRCRAFT  
TILT WING AIRCRAFT  
#TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
VERTICAL FLIGHT

VA-3 GROUND EFFECT MACHINE  
0205  
UP VICKERS VA-3 HOVERCRAFT  
BT #BAC AIRCRAFT  
GROUND EFFECT MACHINES  
PASSENGER AIRCRAFT  
RT AMPHIBIOUS AIRCRAFT  
VACANCIES (CRYSTAL DEFECTS)  
1806 2601  
NT FRENKEL DEFECTS  
BT CRYSTAL DEFECTS  
#DEFECTS  
POINT DEFECTS  
RT HOLES (ELECTRON DEFICIENCIES)

VACCINES  
0404 0405 0412  
NT INOCULUM  
RT ANTIBODIES  
ANTIGENS  
ANTISERUMS  
BACTERIOLOGY  
#DISEASES  
#DRUGS  
EPIDEMIOLOGY  
INOCULATION  
TOXICOLOGY  
TOXINS AND ANTITOXINS

VACILLATION  
0408 0410  
RT DITHERS  
HUMAN REACTIONS  
UPSETTING

VACUUM  
1408 1506 2311  
UP ASPIRATION  
NT HIGH VACUUM  
LOW VACUUM  
ULTRAHIGH VACUUM  
BT #PRESSURE  
RT AEROSPACE ENVIRONMENTS  
BOUNDARY LAYER CONTROL  
EVACUATING (VACUUM)  
GETTERS  
HIGH PRESSURE  
KNUDSEN FLOW  
LOW PRESSURE  
MEAN FREE PATH  
OUTGASSING  
PRESSURE MEASUREMENTS  
RAREFACTION  
SUCTION  
VACUUM EFFECTS  
#VACUUM APPARATUS  
0905 1203 1506  
NT ALPHATRONS  
BAYARD-ALPERT IONIZATION GAGES  
CONDENSATION PUMPS  
ION PUMPS  
IONIZATION GAGES  
KNUDSEN GAGES  
MCLEOD GAGES  
MOLECULAR PUMPS  
PENNING GAGES  
PHILIPS IONIZATION GAGES  
PIRANI GAGES  
VACUUM CHAMBERS  
VACUUM FURNACES  
VACUUM GAGES  
VACUUM PUMPS  
RT COLD TRAPS  
DIFFUSION PUMPS  
HIGH VACUUM  
LOW DENSITY RESEARCH  
RESIDUAL GAS  
SUCTION  
ULTRAHIGH VACUUM  
VACUUM CHAMBERS  
1106 1108 1203 1506  
UP LOW PRESSURE CHAMBERS  
BT #COMPARTMENTS  
PRESSURE CHAMBERS  
TEST CHAMBERS  
RT #VACUUM APPARATUS  
ALTITUDE SIMULATION  
CHAMBERS  
HIGH ALTITUDE ENVIRONMENTS  
HIGH ALTITUDE PRESSURE  
HYPERBARIC CHAMBERS  
SPACE ENVIRONMENT SIMULATION  
SPACE SIMULATORS  
THERMAL VACUUM TESTS  
VACUUM SYSTEMS  
WIND TUNNEL DRIVES  
VACUUM DEPOSITION  
1506 1507 1802  
BT #DEPOSITION  
VAPOR DEPOSITION  
RT CERAMIC COATINGS  
VACUUM EFFECTS  
1203 1506 1704 2304 2601  
RT COLD WELDING  
#ENVIRONMENTS  
PRESSURE EFFECTS  
VACUUM  
VACUUM FURNACES  
1504 1506 3303  
BT FURNACES  
#HEATING EQUIPMENT  
#VACUUM APPARATUS  
RT SOLAR FURNACES  
VACUUM SYSTEMS  
VACUUM GAGES  
1408 1506 2001 2003  
NT ALPHATRONS  
BAYARD-ALPERT IONIZATION GAGES  
IONIZATION GAGES  
KNUDSEN GAGES  
MCLEOD GAGES  
PENNING GAGES  
PHILIPS IONIZATION GAGES  
PIRANI GAGES  
BT #MEASURING INSTRUMENTS  
PRESSURE GAGES  
#VACUUM APPARATUS

# NASA THESAURUS (ALPHABETICAL LISTING)

## VACUUM MELTING

RT BAROMETERS  
BAROMETERS  
ORBITRONS  
PRESSURE MEASUREMENTS  
VACUUM SYSTEMS

## VACUUM MELTING

1506 1704 3303

## BT MELTING

#PHASE TRANSFORMATIONS  
RT ARC MELTING  
INDUCTION HEATING  
LEVITATION  
POWDER METALLURGY  
ZONE MELTING

## VACUUM PUMPS

1202 1501 1504 1506

NT CONDENSATION PUMPS  
ION PUMPS  
MOLECULAR PUMPS

## BT #PUMPS

#VACUUM APPARATUS

RT COMPRESSORS  
CRYOPUMPING  
DIFFUSION PUMPS  
EJECTORS  
EVACUATING (VACUUM)  
JET PUMPS  
MATERIALS HANDLING  
OUTGASSING  
SUCTION  
VACUUM SYSTEMS  
VAPOR TRAPS

## VACUUM SPECTROSCOPY

0601 1411 1506

## BT #SPECTROSCOPY

RT GAS SPECTROSCOPY  
INFRARED SPECTROSCOPY  
MAGNETIC SPECTROSCOPY  
MASS SPECTROSCOPY  
MOLECULAR SPECTROSCOPY  
NUCLEAR RADIATION SPECTROSCOPY  
SPECTROSCOPIC ANALYSIS  
ULTRAVIOLET SPECTROSCOPY  
X RAY SPECTROSCOPY

## VACUUM SYSTEMS

1106 1108 1504 1506

RT ANEQUES  
SYSTEMS  
VACUUM CHAMBERS  
VACUUM FURNACES  
VACUUM GAGES  
VACUUM PUMPS

## VACUUM TUBE OSCILLATORS

0710 0903 0905 1506

NT MICROWAVE OSCILLATORS  
BT #ELECTRON TUBES  
#OSCILLATORS  
VACUUM TUBES

## RT AUTODYNES

## VACUUM TUBES

0701 0903 0905 1506

NT MICROWAVE OSCILLATORS  
NIGOTRONS  
VACUUM TUBE OSCILLATORS  
BT #ELECTRON TUBES

## RT PENTODES

PERVEANCE  
RESIDUAL GAS

VACUUM ULTRAVIOLET RADIATION  
USE FAR ULTRAVIOLET RADIATION

## VADOSE WATER

1305

BT WATER

RT #SOILS

## VALENCE

0603 2401 2405

## NT OCTETS

RT CHEMICAL BONDS  
CONDUCTION ELECTRONS  
ION CHARGE  
#IONS  
TRIVALENT IONS

## VALERIC ACID

1808

## BT #ACIDS

#ALIPHATIC COMPOUNDS  
CARBOXYLIC ACIDS  
FATTY ACIDS  
#ORGANIC COMPOUNDS

## VALIANT AIRCRAFT

0207

UP VICKERS VALIANT AIRCRAFT

BT #BAC AIRCRAFT  
BOMBER AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES

RT RECONNAISSANCE AIRCRAFT  
TANKER AIRCRAFT

## VALIDATION

USE PROVING

## VALIDITY

1902

## RT ACCEPTABILITY

ACCURACY  
ADEQUACY  
CONSISTENCY  
CORRELATION  
EXISTENCE  
MATHEMATICAL MODELS  
PRECISION  
QUALITY  
RELIABILITY  
#SIMULATION  
STANDARDS  
STATISTICAL TESTS  
VARIABILITY

VALKYRIE AIRCRAFT  
USE B-70 AIRCRAFT

## VALLEYS

1305 1306

UP RILLS  
RT EROSION  
RIVERS  
TOPOGRAPHY

## VALSALVA EXERCISE

0401 0405 0408

UP VALSALVA MANEUVER

## RT RESPIRATION

## VALSALVA MANEUVER

USE VALSALVA EXERCISE

## VALUE

1902 3406 3408

NT Q VALUES

RT ASSESSMENTS  
COSTS  
ESTIMATES  
ESTIMATING  
EVALUATION  
FIGURE OF MERIT  
#LEVEL (QUANTITY)  
NORMS  
RANKING  
TECHNOLOGY ASSESSMENT  
VALUE ENGINEERING  
3404 3406  
RT COST ANALYSIS  
COST ESTIMATES  
COST INCENTIVES  
COST REDUCTION  
ECONOMIC ANALYSIS  
ENGINEERING  
INCENTIVE TECHNIQUES  
MANAGEMENT PLANNING  
QUALITY CONTROL  
RELIABILITY ENGINEERING  
STANDARDS  
VALUES

## #VALVES

0202 1501 1504 2806

UP HYDRAULIC VALVES  
NT ARTIFICIAL HEART VALVES  
AUTOMATIC CONTROL VALVES  
BUTTERFLY VALVES  
COCKS  
CONTROL VALVES  
DAMPERS (VALVES)  
FUEL VALVES  
GAS VALVES  
PRESSURE REGULATORS  
RELIEF VALVES  
SOLENOID VALVES  
RT BALLS  
CHOKES (RESTRICTIONS)  
CLOSURES  
DIVERTERS  
ENGINE PARTS  
HYDRAULIC EQUIPMENT  
PACKINGS (SEALS)  
PNEUMATIC CIRCUITS  
PNEUMATIC EQUIPMENT  
SEALS (STOPPERS)  
TRAPS  
WATER HAMMER

VAMPIRE AIRCRAFT  
USE DR 115 AIRCRAFT  
VAMPIRE MK 35 AIRCRAFT

0207

## BT HAWKER SIDDELEY AIRCRAFT

#JET AIRCRAFT

## RT BOMBER AIRCRAFT

HARRIER AIRCRAFT

## VAN ALLEN RADIATION BELTS

USE RADIATION BELTS

## VAN BIESBROECK STAR

3001

## BT #CELESTIAL BODIES

STARS

## VAN DE GRAAFF ACCELERATORS

0302 2304 2403

## BT #PARTICLE ACCELERATORS

RT ACCELERATORS

ELECTRON ACCELERATORS

## VAN DER WAAL FORCES

0603 1203 2404 3304

## RT DIPOLE MOMENTS

FORCE

INTERATOMIC FORCES

INTERMOLECULAR FORCES

## VAN SLYKE METHOD

0403 0601 1808

## BT CHEMICAL ANALYSIS

#CHEMICAL TESTS

GAS ANALYSIS

QUANTITATIVE ANALYSIS

## VANADATES

0603 1804

## RT CALCIUM VANADATES

BT #VANADIUM COMPOUNDS

RT METAL OXIDES

VANADIUM OXIDES

## VANADIUM

1703

## BT #CHEMICAL ELEMENTS

#METALS

TRANSITION METALS

## VANADIUM ALLOYS

1701 1704

## BT #ALLOYS

RT VANADIUM ISOTOPIES

## VANADIUM CARBIDES

0603 1804

## BT CARBIDES

#CARBON COMPOUNDS

#VANADIUM COMPOUNDS

RT VANADIUM ISOTOPIES

## #VANADIUM COMPOUNDS

0603

## RT CALCIUM VANADATES

VANADATES

VANADIUM CARBIDES

VANADIUM OXIDES

VANADYL COMPOUNDS

RT GROUP 5B COMPOUNDS

METAL COMPOUNDS

VANADIUM ISOTOPIES

## VANADIUM ISOTOPIES

2406

## BT ISOTOPIES

RT #CHEMICAL ELEMENTS

VANADIUM ALLOYS

VANADIUM CARBIDES

#VANADIUM COMPOUNDS

VANADIUM OXIDES

## VANADIUM OXIDES

0603 1804

## BT #CHALCOGENIDES

METAL OXIDES

OXIDES

#VANADIUM COMPOUNDS

## RT VANADATES

VANADIUM ISOTOPIES

## VANADYL COMPOUNDS

0603 1804

BT #VANADIUM COMPOUNDS

## VANADYL RADICAL

0603 1804

## BT CATIONS

CHARGED PARTICLES

#IONS

METAL IONS

#PARTICLES

RT RADICALS

## VANELESS DIFFUSERS

1202 1203 1504

RT COMPRESSORS

# NASA THESAURUS (ALPHABETICAL LISTING)

DIFFUSERS  
 EXHAUST DIFFUSERS  
 #PUMPS  
 SUPERSONIC DIFFUSERS  
 #VANES  
 0104 1202 1203 1501 1504 2806  
 NT GUIDE VANES  
 JET VANES  
 WIND VANES  
 RT #AIRFOILS  
 BLADES  
 COMPRESSOR BLADES  
 #CONTROL SURFACES  
 PINS  
 IMPELLERS  
 STATOR BLADES  
 TAIL ASSEMBLIES  
 TURBOMACHINE BLADES  
 VANGUARD 2 LAUNCH VEHICLE  
 3106 3409  
 BT #LAUNCH VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 VIKING ROCKET VEHICLE  
 X-248 ENGINE  
 VANGUARD PROJECT  
 1308 3107 3404  
 BT NASA PROGRAMS  
 #PROGRAMS  
 PROJECTS  
 RT VANGUARD SATELLITES  
 X-405 ENGINE  
 VANGUARD 1 SATELLITE  
 1308 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEODETIC SATELLITES  
 #SATELLITES  
 #UNMANNED SPACECRAFT  
 VANGUARD SATELLITES  
 VANGUARD 2 SATELLITE  
 1308 3107  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 METEOROLOGICAL SATELLITES  
 #SATELLITES  
 VANGUARD SATELLITES  
 VANGUARD 3 SATELLITE  
 3107 3108  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 GEOPHYSICAL SATELLITES  
 #SATELLITES  
 VANGUARD SATELLITES  
 VANGUARD SATELLITES  
 1308 3107 3409  
 NT VANGUARD 1 SATELLITE  
 VANGUARD 2 SATELLITE  
 VANGUARD 3 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 RT GEODETIC SATELLITES  
 GEOPHYSICAL SATELLITES  
 INTERNATIONAL GEOPHYSICAL YEAR  
 METEOROLOGICAL SATELLITES  
 VANGUARD PROJECT  
 VANS  
 USE TRUCKS  
 VAPOR DEPOSITION  
 0602 1203  
 NT VACUUM DEPOSITION  
 BT #DEPOSITION  
 COATING  
 RT #COATINGS  
 CRYSTAL GROWTH  
 METAL VAPORS  
 METALLIZING  
 ULTRAPURE METALS  
 VAPOR JETS  
 VAPORIZERS  
 VAPORIZING  
 VAPOR GENERATORS  
 USE VAPORIZERS  
 VAPOR JETS  
 1202 1203  
 BT FLUID JETS  
 RT AIR JETS  
 GAS FLOW  
 JET FLOW

PLASMA JETS  
 VAPOR DEPOSITION  
 VAPOR LIQUID EQUILIBRIUM  
 USE LIQUID-VAPOR EQUILIBRIUM  
 VAPOR PHASES  
 0602 1203  
 UF GAS PHASES  
 RT CRITICAL PRESSURE  
 GAS-METAL INTERACTIONS  
 GAS-SOLID INTERFACES  
 #GASES  
 HYDROGEN CLOUDS  
 LIQUID-GAS MIXTURES  
 LIQUID PHASES  
 LIQUID-VAPOR INTERFACES  
 #LIQUIDS  
 METAL-GAS SYSTEMS  
 PHASE DIAGRAMS  
 PHASES  
 SOLIDS  
 SUPERCRITICAL PRESSURES  
 VAPOR PRESSURE  
 #VAPORS  
 VOLATILITY  
 VAPOR PRESSURE  
 0603 1203 1408 2003  
 BT #PRESSURE  
 #THERMODYNAMIC PROPERTIES  
 THERMOPHYSICAL PROPERTIES  
 RT DALTON LAW  
 FLASH POINT  
 FUEL TANK PRESSURIZATION  
 HENRY LAW  
 HUMIDITY  
 INTERFACIAL TENSION  
 ISOTENISCOPIES  
 LIQUID-GAS MIXTURES  
 LIQUID-VAPOR INTERFACES  
 PARTIAL PRESSURE  
 RAULT LAW  
 SUBLIMATION  
 SUPERCRITICAL PRESSURES  
 VAPOR PHASES  
 VOLATILITY  
 VAPOR TRAILS  
 USE CONTRAILS  
 VAPOR TRAPS  
 1203  
 BT TRAPS  
 RT COLD TRAPS  
 GETTERS  
 ION TRAPS (INSTRUMENTATION)  
 VACUUM PUMPS  
 VAPORIZATION HEAT  
 USE HEAT OF VAPORIZATION  
 VAPORIZERS  
 0602 1203 1504 3303  
 UF VAPOR GENERATORS  
 NT EVAPORATORS  
 BT #HEATING EQUIPMENT  
 RT BOILERS  
 COLLOIDAL GENERATORS  
 COLUMNS (PROCESS ENGINEERING)  
 CONDENSERS (LIQUIFIERS)  
 GAS GENERATORS  
 GENERATORS  
 HEATERS  
 #SEPARATORS  
 SPRAYERS  
 VAPOR DEPOSITION  
 VAPORIZING  
 #VAPORS  
 VAPORIZING  
 0602 1203 3303  
 UF VOLATILIZATION  
 NT BOILING  
 EVAPORATION  
 FILM BOILING  
 FLASHING (VAPORIZING)  
 LEIDENFROST PHENOMENON  
 NUCLEATE BOILING  
 PROPELLANT EVAPORATION  
 SUBLIMATION  
 TRANSPIRATION  
 BT #PHASE TRANSFORMATIONS  
 RT ABLATION  
 CONCENTRATING  
 DESALINIZATION  
 DISTILLATION  
 EVOLUTION (LIBERATION)  
 HEAT OF VAPORIZATION  
 #HEATING

# VARIABLE GEOMETRY STRUCTURES

SEPARATION  
 SPRAYING  
 STRIPPING (DISTILLATION)  
 SURFACE REACTIONS  
 VAPOR DEPOSITION  
 VAPORIZERS  
 #VAPORS  
 VOLATILITY  
 #VAPORS  
 0504 0603 1308 1704 1805 2003 2311 3304  
 NT CESIUM VAPOR  
 MERCURY VAPOR  
 METAL VAPORS  
 SODIUM VAPOR  
 WATER VAPOR  
 RT COMBUSTION PRODUCTS  
 CONDENSATES  
 EXHAUST GASES  
 FUMES  
 #GASES  
 HYDROGEN CLOUDS  
 LIQUID-VAPOR EQUILIBRIUM  
 SMOKE  
 VAPOR PHASES  
 VAPORIZERS  
 VAPORIZING  
 VARACTOR DIODE CIRCUITS  
 0902 0905 0906 2602  
 BT #CIRCUITS  
 RT VARACTOR DIODES  
 VARACTOR DIODES  
 0903 0905 0906 2602  
 UF VARACTORS  
 BT #DIODES  
 #ELECTRONIC EQUIPMENT  
 SEMICONDUCTOR DEVICES  
 SOLID STATE DEVICES  
 RT JUNCTION DIODES  
 PARAMETRIC DIODES  
 VARACTOR DIODE CIRCUITS  
 VARISTORS  
 VARACTORS  
 USE VARACTOR DIODES  
 VARIABILITY  
 1505  
 RT CONSISTENCY  
 CONTINUITY  
 CONVERGENCE  
 CORRELATION  
 COVARIANCE  
 DISPERSION  
 ECCENTRICITY  
 EQUILIBRIUM  
 FACTOR ANALYSIS  
 HETEROGENEITY  
 LINEARITY  
 NONLINEARITY  
 PERIODIC VARIATIONS  
 QUALITY  
 QUALITY CONTROL  
 #RANGE (EXTREMES)  
 REGRESSION ANALYSIS  
 RELIABILITY  
 SAMPLING  
 #STABILITY  
 STANDARD DEVIATION  
 STANDARDIZATION  
 VALIDITY  
 VARIABLE  
 VARIANCE (STATISTICS)  
 VARIABLE  
 1902 2311 3406  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UF FACTORS  
 RT COMPLEX VARIABLES  
 DEPENDENT VARIABLES  
 FORM FACTORS  
 INDEPENDENT VARIABLES  
 RACE FACTORS  
 RANDOM VARIABLES  
 SOCIAL FACTORS  
 VARIABILITY  
 VARIABLE AREA RINGS  
 USE TRAILING-EDGE FLAPS  
 VARIABLE GEOMETRY STRUCTURES  
 0506 1902 2308 3203  
 RT #EXPANDABLE STRUCTURES  
 FOLDING STRUCTURES  
 INFLATABLE STRUCTURES  
 STRUCTURES

# VARIABLE LIFT

VARIABLE LIFT  
USE LIFT  
VARIABLE MASS SYSTEMS  
2308 2311  
BT KINETICS  
RT #EQUATIONS OF MOTION  
MASS BALANCE  
MASS DISTRIBUTION  
SYSTEMS  
VARIABLE PITCH PROPELLERS  
0102 0104 0202  
UP CONSTANT SPEED PROPELLERS  
BT PROPELLERS  
RT HELICOPTER PROPELLER DRIVE  
PITCH (INCLINATION)  
VARIABLE STARS  
2306 3001 3006  
NT CEPHEID VARIABLES  
HERCULES NOVA  
NOVAE  
SUPERNOVAE  
T TAURI STARS  
BT #CELESTIAL BODIES  
STARS  
RT BINARY STARS  
COMPANION STARS  
ECLIPSING BINARY STARS  
LAMBDA TAURI STARS  
OMICRON CETI STAR  
PERIODIC VARIATIONS  
STELLAR MASS  
STELLAR MASS EJECTION  
VARIABLE SWEEP WINGS  
0101 0102 0104  
UP #WINGS  
OGEE WINGS  
W WINGS  
BT #AIRFOILS  
#PLANFORMS  
WING PLANFORMS  
WINGS  
RT ARROW WINGS  
BOEING 733 AIRCRAFT  
DELTA WINGS  
F-111 AIRCRAFT  
FOLDING STRUCTURES  
OGEE SHAPE  
PANAVIA MILITARY AIRCRAFT  
SWEEP FORWARD WINGS  
SWEEPBACK WINGS  
VARIABLE THRUST  
0101 2805 2808  
BT #THRUST  
RT CONTROL ROCKETS  
HIGH THRUST  
JET CONTROL  
JET THRUST  
LOW THRUST  
LOW THRUST PROPULSION  
MICROTHRUST  
ROCKET THRUST  
THROTTLING  
THRUST AUGMENTATION  
THRUST CONTROL  
THRUST TERMINATION  
THRUST VECTOR CONTROL  
VARIANCE  
1902 1905  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT DEGREES OF FREEDOM  
MULTIVARIATE STATISTICAL ANALYSIS  
VARIANCE (STATISTICS)  
VARIANCE (STATISTICS)  
1902  
NT MULTIVARIATE STATISTICAL ANALYSIS  
BT DISTRIBUTION MOMENTS  
#MOMENTS  
#STATISTICAL ANALYSIS  
RT CONFIDENCE LIMITS  
CORRELATION  
COVARIANCE  
EXPERIMENTAL DESIGN  
FACTOR ANALYSIS  
GAUSS-MARKOV THEOREM  
HETEROGENEITY  
HOMOGENEITY  
MEAN  
QUALITY CONTROL  
#RANGE (EXTREMES)  
REGRESSION ANALYSIS

STANDARD DEVIATION  
VARIABILITY  
VARIANCE  
VARIATION METHOD  
USE CALCULUS OF VARIATIONS  
VARIATIONAL PRINCIPLES  
0603 1202 1902 2308 2311  
RT CALCULUS OF VARIATIONS  
DYNAMICS  
EQUILIBRIUM METHODS  
IRREVERSIBLE PROCESSES  
ONSAGER PHENOMENOLOGICAL  
COEFFICIENT  
RAYLEIGH-RITZ METHOD  
#VARIATIONS  
1902  
UP FLUCTUATION  
NT ALTERNATIONS  
ANNUAL VARIATIONS  
DIURNAL VARIATIONS  
GEOMAGNETIC MICROPULSATIONS  
GEOMAGNETIC PULSATIONS  
MAGNETIC VARIATIONS  
NOCTURNAL VARIATIONS  
PERIODIC VARIATIONS  
TWENTY-SEVEN DAY VARIATION  
WIND VARIATIONS  
RT ALTERNATIVES  
ASYMMETRY  
DEFLECTION  
DEVIATION  
DIFFERENCES  
DISPLACEMENT  
DISTORTION  
DIVERGENCE  
ECCENTRICITY  
#GRADIENTS  
MICROPULSATIONS  
#PERTURBATION  
REVISIONS  
SUBSTITUTES  
SURGES  
VARIOMETERS  
1307 1308 1406 2307  
UP MAGNETOVARIOGRAPHS  
BT MAGNETOMETERS  
#MEASURING INSTRUMENTS  
RT GEOMAGNETISM  
VARISTORS  
0903 0905 0906  
BT #ELECTRONIC EQUIPMENT  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
RT RESISTORS  
THERMISTORS  
VARACTOR DIODES  
VARNISHES  
1808  
RT FILLERS  
FINISHES  
PAINTS  
PRIMERS (COATINGS)  
PROTECTIVE COATINGS  
SEALERS  
SPRAYED COATINGS  
VASCULAR SYSTEM  
0404 0405  
NT AORTA  
ARTERIES  
BLOOD VESSELS  
CAPILLARIES (ANATOMY)  
GLOMERULUS  
VEINS  
BT #ANATOMY  
CIRCULATORY SYSTEM  
RT BLOOD CIRCULATION  
CARDIOVASCULAR SYSTEM  
CAROTID SINUS REFLEX  
VASOCONSTRICTION  
0404 0408  
RT BLOOD VESSELS  
BODY TEMPERATURE  
COLD TOLERANCE  
ISCHEMIA  
#REFLEXES  
SNEEZING  
VASOCONSTRICTOR DRUGS  
0404 0408  
UP PRESSORS  
NT HYPERTENSIN  
BT #DRUGS

# NASA THESAURUS (ALPHABETICAL LISTING)

VASODILATION  
0404 0408  
RT BLOOD VESSELS  
BODY TEMPERATURE  
CONGESTION  
#REFLEXES  
VASOMOTOR NERVOUS SYSTEM  
USE #NERVOUS SYSTEM  
VC-10 AIRCRAFT  
0207  
UP VICKERS 1100 AIRCRAFT  
VICKERS VC-10 AIRCRAFT  
BT #BAC AIRCRAFT  
#COMMERCIAL AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
VECTOR ANALYSIS  
1902 2308 2311  
NT COLLINEARITY  
COPLANARITY  
CURL (VECTORS)  
VORTICITY  
BT #ANALYSIS (MATHEMATICS)  
CALCULUS  
#GEOMETRY  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS  
EULER-CAUCHY EQUATIONS  
#GRADIENTS  
POYNTING THEOREM  
RESULTANTS  
STABILITY DERIVATIVES  
VECTOR CURRENTS  
VECTOR CALCULUS  
USE VECTOR SPACES  
VECTOR CONTROL  
USE DIRECTIONAL CONTROL  
VECTOR CURRENTS  
1001 2304 2402 2403  
RT CURRENT ALGEBRA  
PARITY  
RADIOACTIVE DECAY  
SUPERCONDUCTIVITY  
VECTOR ANALYSIS  
VECTOR MESONS  
VECTOR DOMINANCE MODEL  
1407 2403 2405  
BT #MODELS  
RT HADRONS  
HIGH ENERGY INTERACTIONS  
NUCLEONS  
PHOTONEUTRONS  
PHOTOPRODUCTION  
VECTOR MESONS  
2403 2405  
RT VECTOR CURRENTS  
VECTOR SPACES  
1902 2308 2311  
UP GRASSMANN ALGEBRA  
VECTOR CALCULUS  
NT ADJOINTS  
BANACH SPACE  
CANONICAL FORMS  
EIGENVALUES  
EIGENVECTORS  
HILBERT SPACE  
JORDAN FORM  
MATRICES (MATHEMATICS)  
STATE VECTORS  
STOKES THEOREM (VECTOR CALCULUS)  
U SPIN SPACE  
VECTORS (MATHEMATICS)  
VORTICITY  
BT #ALGEBRA  
RT #ANALYSIS (MATHEMATICS)  
CHAPLYGIN EQUATION  
HERMITIAN POLYNOMIAL  
HODOGRAPHS  
KAKUTANI THEOREM  
LINEAR TRANSFORMATIONS  
VECTORCARDIOGRAPHY  
0401 0405 0501  
RT ELECTROCARDIOGRAPHY  
VECTORS (MATHEMATICS)  
1902 2311  
NT EIGENVECTORS  
STATE VECTORS  
VORTICITY  
BT #ALGEBRA  
VECTOR SPACES



## NASA THESAURUS (ALPHABETICAL LISTING)

RT DYADICS  
 FUNCTION SPACE  
 SCHWARTZ INEQUALITY  
 VEGA LAUNCH VEHICLE  
 3106 3409  
 UF VEGA ROCKET VEHICLE  
 BT #LAUNCH VEHICLES  
 #MULTISTAGE ROCKET VEHICLES  
 #ROCKET VEHICLES  
 RT ATLAS D ICBM  
 LIQUID PROPELLANT ROCKET ENGINES  
 VEGA ROCKET VEHICLE  
 USE VEGA LAUNCH VEHICLE  
 VEGARD-KAPLAN BANDS  
 0601 1411 2306  
 BT #SPECTRA  
 SPECTRAL BANDS  
 RT EMISSION SPECTRA  
 MOLECULAR SPECTRA  
 NITROGEN  
 VEGETABLES  
 0409 0505  
 NT POTATOES  
 SPINACH  
 RT ANGIOSPERMS  
 FOOD  
 LEGUMINOUS PLANTS  
 SEEDS  
 VEGETATION  
 0404 0409  
 BT EARTH RESOURCES  
 RT #PLANTS (BOTANY)  
 TREES (PLANTS)  
 VEHICLE WHEELS  
 0202 1504  
 NT NOSE WHEELS  
 BT #WHEELS  
 RT AIRCRAFT TIRES  
 #BRAKES (FOR ARRESTING MOTION)  
 LANDING GEAR  
 #MECHANICAL DRIVES  
 ROLLERS  
 SHAFTS (MACHINE ELEMENTS)  
 SUSPENSION SYSTEMS (VEHICLES)  
 TIRES  
 WHEEL BRAKES  
 VEHICLES  
 0201 1106 2102 2103 3103 3105 3110 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UF CRAFT  
 ROTATING VEHICLES  
 RT AMPHIBIOUS VEHICLES  
 AUTOMOBILES  
 CAPTURED AIR BUBBLE VEHICLES  
 CRAWLER TRACTORS  
 #ENGINES  
 GROUND EFFECT MACHINES  
 #HYPERSONIC VEHICLES  
 #LAUNCH VEHICLES  
 LUNAR ROVING VEHICLES  
 LUNAR LUNAR ROVING VEHICLES  
 #MISSILES  
 NIKE-HYDAC ROCKET VEHICLE  
 NIKE-INOQUOIS ROCKET VEHICLE  
 #REENTRY VEHICLES  
 RESEARCH VEHICLES  
 #ROCKET VEHICLES  
 #SURFACE VEHICLES  
 TEST VEHICLES  
 TRACTORS  
 UNIDENTIFIED FLYING OBJECTS  
 #WATER VEHICLES  
 VEHICULAR TRACKS  
 0202  
 RT IDLERS  
 #SURFACE VEHICLES  
 SUSPENSION SYSTEMS (VEHICLES)  
 TRACKS  
 TREADS  
 VEINS  
 0404 0405  
 BT #ANATOMY  
 BLOOD VESSELS  
 CARDIOVASCULAR SYSTEM  
 CIRCULATORY SYSTEM  
 VASCULAR SYSTEM  
 RT ARTERIES  
 VELA SATELLITES  
 3107  
 BT ARTIFICIAL SATELLITES

EARTH SATELLITES  
 MILITARY SATELLITES  
 #MILITARY SPACECRAFT  
 #SATELLITES  
 RT FISHBOWL OPERATION  
 HIGH ALTITUDE NUCLEAR DETECTION  
 HIGH ALTITUDE TESTS  
 NUCLEAR EXPLOSIONS  
 NUCLEAR RADIATION  
 POST-BLAST NUCLEAR RADIATION  
 RADIATION DETECTORS  
 RADIATION MEASURING INSTRUMENTS  
 SATELLITE OBSERVATION  
 VELOCITY  
 0101 0201 1202 2311 3009 3408  
 UF SPEED  
 NT ACOUSTIC VELOCITY  
 AIRSPEED  
 ANGULAR VELOCITY  
 CRITICAL VELOCITY  
 ESCAPE VELOCITY  
 EXHAUST VELOCITY  
 FLOW VELOCITY  
 GROUND SPEED  
 GROUP VELOCITY  
 HIGH SPEED  
 HYPERSONIC SPEED  
 LANDING SPEED  
 LIGHT SPEED  
 LOW SPEED  
 ORBITAL VELOCITY  
 PHASE VELOCITY  
 PROPAGATION VELOCITY  
 RADIAL VELOCITY  
 RELATIVISTIC VELOCITY  
 ROTOR SPEED  
 SOLAR VELOCITY  
 SUBSONIC SPEED  
 SUPERSONIC SPEEDS  
 TERMINAL VELOCITY  
 TIP SPEED  
 TRANSONIC SPEED  
 WIND VELOCITY  
 RT ACCELERATION (PHYSICS)  
 BODY KINEMATICS  
 DE BROGLIE WAVELENGTHS  
 DYNAMICS  
 FERMAT PRINCIPLE  
 KINEMATICS  
 KINETICS  
 LOADING RATE  
 MOTION  
 PERCEPTUAL TIME CONSTANT  
 PRESSURE MEASUREMENTS  
 RELATIVISTIC EFFECTS  
 TIME MEASUREMENT  
 VELOCITY DISTRIBUTION  
 0101 1202 1203 2308  
 UF VELOCITY FIELDS  
 VELOCITY POTENTIALS  
 VELOCITY PROFILES  
 BT #DISTRIBUTION (PROPERTY)  
 RT FLOW DISTRIBUTION  
 FLOW VELOCITY  
 PORHLAUSER METHOD  
 PRESSURE DISTRIBUTION  
 SHOCK WAVE PROFILES  
 THREE DIMENSIONAL BOUNDARY LAYER  
 VELOCITY ERRORS  
 0101 1406 1410 2308  
 BT ERRORS  
 RT ESCAPE VELOCITY  
 ORBITAL VELOCITY  
 POSITION ERRORS  
 VELOCITY MEASUREMENT  
 VELOCITY FIELDS  
 USE VELOCITY DISTRIBUTION  
 VELOCITY MEASUREMENT  
 0101 1402 1406 1410 2308  
 UF ANEMOMETRY  
 NT WIND VELOCITY MEASUREMENT  
 BT #MECHANICAL MEASUREMENT  
 RT ACCELEROMETERS  
 ANEMOMETERS  
 FLOW MEASUREMENT  
 FLOW VELOCITY  
 FLOWMETERS  
 HOT-FILM ANEMOMETERS  
 HOT-WIRE ANEMOMETERS  
 MEASUREMENT  
 PITOT TUBES  
 PRESSURE MEASUREMENTS

## VENN DIAGRAMS

RADIAL VELOCITY  
 SPEED INDICATORS  
 STROBOSCOPES  
 TACHOMETERS  
 TIME MEASUREMENT  
 VELOCITY ERRORS  
 VENTURI TUBES  
 VELOCITY MODULATION  
 1002 1003 2403  
 BT #MODULATION  
 RT BUNCHING  
 CAVITY RESONATORS  
 ELECTRON BUNCHING  
 #ELECTRON TUBES  
 VELOCITY POTENTIALS  
 USE FLOW DISTRIBUTION  
 VELOCITY DISTRIBUTION  
 VELOCITY PROBES  
 USE PITOT TUBES  
 SPEED INDICATORS  
 VELOCITY PROFILES  
 USE VELOCITY DISTRIBUTION  
 VENEERS  
 1305 1504  
 RT #COATINGS  
 FINISHES  
 LAMINATES  
 MASONRY  
 VENERA 2 SATELLITE  
 3107  
 BT #INTERPLANETARY SPACECRAFT  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENERA SATELLITES  
 VENUS PROBES  
 VENERA 3 SATELLITE  
 3107  
 BT #INTERPLANETARY SPACECRAFT  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENERA SATELLITES  
 VENUS PROBES  
 VENERA 4 SATELLITE  
 3107  
 BT ARTIFICIAL SATELLITE  
 EARTH SATELLITES  
 #SATELLITES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENERA SATELLITES  
 VENERA 5 SATELLITE  
 3107 3108  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENERA SATELLITES  
 VENERA 6 SATELLITE  
 3107 3108  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #SATELLITES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENERA SATELLITES  
 VENERA SATELLITES  
 3107 3108  
 NT VENERA 2 SATELLITE  
 VENERA 3 SATELLITE  
 VENERA 4 SATELLITE  
 VENERA 5 SATELLITE  
 VENERA 6 SATELLITE  
 BT ARTIFICIAL SATELLITES  
 EARTH SATELLITES  
 #INTERPLANETARY SPACECRAFT  
 #SATELLITES  
 SPACE PROBES  
 #UNMANNED SPACECRAFT  
 VENUS PROBES  
 RT U.S.S.R. SATELLITE  
 U.S.S.R. SPACE PROGRAM  
 VENEZIANO MODEL  
 1902  
 BT MATHEMATICAL MODELS  
 RT #ELEMENTARY PARTICLE INTERACTIONS  
 VENEZUELA  
 1305  
 RT NATIONS  
 SOUTH AMERICA  
 VENN DIAGRAMS  
 1902

# VENOM AIRCRAFT

BT DIAGRAMS  
RT #ANALYSIS (MATHEMATICS)  
#GEOMETRY  
#MATHEMATICAL LOGIC

## VENOM AIRCRAFT

USE DH 112 AIRCRAFT

### VENTILATION

0504 0507 0508

RT AIR CONDITIONING  
AIR COOLING  
AIR FILTERS  
AIR FLOW  
AIR INTAKES  
AIR PURIFICATION  
BLOWERS  
COMFORT  
#COOLING  
COOLING SYSTEMS  
DRAFT (GAS FLOW)  
DUCTS  
ENVIRONMENTAL ENGINEERING  
EXHAUST SYSTEMS  
EXHAUSTING  
LIFE SUPPORT SYSTEMS  
REFRIGERATING  
#TEMPERATURE  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
VENTILATION FANS  
VENTILATORS  
VENTING  
VENTS

### VENTILATION FANS

0504 1504

RT BLOWERS  
#COOLING  
COOLING SYSTEMS  
DUCTED FANS  
FANS  
VENTILATION  
VENTILATORS  
VENTS

### VENTILATORS

0504 0507 0508

RT AIR DUCTS  
AIR INTAKES  
BLOWERS  
DIFFUSERS  
EXHAUST SYSTEMS  
VENTILATION  
VENTILATION FANS  
VENTS

### VENTING

1203 1504

RT BREATHING VIBRATION  
#COOLING  
DISCHARGE  
EVACUATING (VACUUM)  
EXHAUSTING  
FLUSHING  
PURGING  
RELEASING  
RELIEF VALVES  
SEPARATION  
VENTILATION  
VENTS

### VENTRAL SECTIONS

0404

RT ABDOMEN

### VENTS

0101 0104 1203

BT OUTLETS  
RT APERTURES  
CAVITIES  
CHIMNEYS  
COOLING SYSTEMS  
DUCTS  
EVACUATING (VACUUM)  
EXHAUST SYSTEMS  
FLUES  
GATES (OPENINGS)  
LOUVERS  
NOZZLES  
#OPENINGS  
PORTS (OPENINGS)  
RELIEF VALVES  
SLOTTED WIND TUNNELS  
VENTILATION  
VENTILATORS  
VENTING  
WINDOWS (APERTURES)

### VENTURI TUBES

1202 1203 1204

RT DETECTORS  
FLOW MEASUREMENT  
FLOWMETERS  
GAS METERS  
#MEASURING INSTRUMENTS  
ORIFICES  
PITOT TUBES  
PRESSURE GRADIENTS  
PRESSURE MEASUREMENTS  
TUBES  
VELOCITY MEASUREMENT

### VENUS (PLANET)

3008

BT #CELESTIAL BODIES  
PLANETS

RT VENUS ATMOSPHERE

### VENUS ATMOSPHERE

3007 3008 3009

RT AEROSPACE ENVIRONMENTS  
VENUS (PLANET)

### VENUS FLY TRAP ROCKET VEHICLE

3106 3108

BT #ROCKET VEHICLES  
SOUNDING ROCKETS

RT COSMIC DUST

#EXTRATERRESTRIAL MATTER

### VENUS PROBES

3007 3108 3409

RT MARINER 1 SPACE PROBE  
MARINER 2 SPACE PROBE  
MARINER 5 SPACE PROBE  
VENERA 2 SATELLITE  
VENERA 3 SATELLITE  
VENERA SATELLITES  
ZOND 1 SPACE PROBE  
ZOND 3 SPACE PROBE  
ZOND 4 SPACE PROBE  
ZOND 5 SPACE PROBE  
ZOND 6 SPACE PROBE  
ZOND 7 SPACE PROBE

BT #INTERPLANETARY SPACECRAFT

SPACE PROBES

#UNMANNED SPACECRAFT

RT MARINER PROGRAM  
MARINER VENUS 67 SPACECRAFT  
MARS PROBES  
OUTER PLANETS EXPLORERS  
SPUTNIK 5 SATELLITE  
SPUTNIK 8 SATELLITE  
VOYAGER PROJECT

### VENUS RADAR ECHOES

0705 0710 3001 3003

BT #ECHOES

RADAR ECHOES

### VERBAL COMMUNICATION

0404 0702

BT #COMMUNICATING

#COMMUNICATION

RT ACOUSTICS

CONVERSATION

#LANGUAGES

LECTURES

PHONETICS

TELEPHONY

VOICE COMMUNICATION

VOICE DATA PROCESSING

WORDS (LANGUAGE)

### VERIFICATION (PROVING)

USE PROVING

### VERMICULITE

1806 3305

RT CLAYS

INSULATION

MICA

#MINERALS

PACKAGING

SILICATES

### VERMONT

1305

BT UNITED STATES OF AMERICA

### VERNEUIL PROCESS

1601 2601

BT CRYSTAL GROWTH

#GROWTH

RT CZOCHRALSKI METHOD

RUBY LASERS

### VERNIER ENGINES

2802 2806 2808

RT CONTROL ROCKETS

SYNCON APOGEE ENGINES

YLR-101-NA-13 ENGINE

YLR-101-NA-15 ENGINE

# NASA THESAURUS (ALPHABETICAL LISTING)

## BT #ENGINES

TORPEDO ENGINES  
RT ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
INTERNAL COMBUSTION ENGINES  
#LAUNCH VEHICLES  
LIQUID PROPELLANT ROCKET ENGINES  
NA-2 ENGINE  
NA-3 ENGINE  
NA-5 ENGINE  
MICROROCKET ENGINES  
RESTARTABLE ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
THRUST VECTOR CONTROL  
VERONIQUE ROCKET VEHICLES

3106 3108

BT VERONIQUE V-27 ROCKET VEHICLE  
VERONIQUE V-37 ROCKET VEHICLE

BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS

RT LIQUID PROPELLANT ROCKET ENGINES  
VERONIQUE V-27 ROCKET VEHICLE

3106

BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS

VERONIQUE ROCKET VEHICLES  
VERONIQUE V-37 ROCKET VEHICLE

3106

BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS

VERONIQUE ROCKET VEHICLES  
VERONIQUE V-37 ROCKET VEHICLE

3106

BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
SOUNDING ROCKETS

VERSATILITY  
3408  
RT COMPATIBILITY  
FLEXIBILITY

## VERSENE

1808

BT ACETIC ACID  
#ACIDS  
#ALIPHATIC COMPOUNDS  
#AMINES  
CARBOXYLIC ACIDS  
DETERGENTS  
#ETHYLENE COMPOUNDS  
ETHYLENEDIAMINETETRAACETIC ACIDS  
FATTY ACIDS  
#ORGANIC COMPOUNDS  
SURFACTANTS

## VERTEBRAE

0402 0404

BT #ANATOMY  
BONES  
MUSCULOSKELETAL SYSTEM

RT INTERVERTEBRAL DISKS  
NECK (ANATOMY)  
SPINE

## VERTEBRAL COLUMN

0402 0404

BT #ANATOMY  
MUSCULOSKELETAL SYSTEM

RT BONES

## VERTEBRATES

0402 0404

RT AMPHIBIA  
BABOONS  
BATS  
BIRDS  
CALVES  
CATS  
CATTLE  
CERCOPITHECUS MONKEYS  
CHICKENS  
CHIMPANZEES  
DEER  
DOGS  
DOLPHINS  
FISHES  
FROGS  
GOATS  
GROUND SQUIRRELS  
GUINEA PIGS  
HAMSTERS  
HORSES  
HUMAN BEINGS  
JERBOAS  
LIZARDS  
MAMMALS  
MANGABEYS

# **WASA THESAURUS (ALPHABETICAL LISTING)**

## **\*VIBRATION**

NICE  
 MONKEYS  
 OPOSSUM  
 PIGMONS  
 POCKET NICE  
 PORPOISES  
 PRIMATES  
 RABBITS  
 RATS  
 REPTILES  
 RODENTS  
 SHARKS  
 SHEEP  
 SHREWS  
 SNAKES  
 SQUIRRELS  
 SWINE  
 TURKEYS  
 TURTLES  
 WHALES  
 WOLVERINES  
 WOLVES  
 BT #ANIMALS  
 VERTICAL AIR CURRENTS  
 1301 1302 2001 2003  
 UP UPDRAFTS  
 BT AIR CURRENTS  
 AIR FLOW  
 #FLUID FLOW  
 GAS FLOW  
 RT ATMOSPHERIC CIRCULATION  
 CONVECTION CURRENTS  
 LEE WAVES  
 SOARING  
 #TURBULENCE  
 VERTICAL MOTION  
 #WIND (METEOROLOGY)  
 WINDS ALOFT  
 VERTICAL DISTRIBUTION  
 1902 1905 2003  
 BT #DISTRIBUTION (PROPERTY)  
 RT ELECTRON DISTRIBUTION  
 ION DISTRIBUTION  
 PRESSURE DISTRIBUTION  
 RADIATION DISTRIBUTION  
 SPATIAL DISTRIBUTION  
 TEMPERATURE DISTRIBUTION  
 WIND PROFILES  
 VERTICAL PINS  
 USE PINS  
 VERTICAL FLIGHT  
 0209 3006 3110  
 RT BALLOON FLIGHT  
 CLIMBING FLIGHT  
 FLIGHT  
 FLIGHT PATHS  
 HOVERING  
 ROCKET FLIGHT  
 #V/STOL AIRCRAFT  
 VERTICAL LANDING  
 VERTICAL MOTION  
 VERTICAL TAKEOFF  
 VERTICAL LANDING  
 0209  
 UP VERTICAL TAKEOFF AND LANDING  
 VTOL  
 BT #LANDING  
 RT AIRCRAFT LANDING  
 SPACECRAFT LANDING  
 TOUCHDOWN  
 VERTICAL FLIGHT  
 VERTICAL MOTION  
 VERTICAL TAKEOFF  
 VERTICAL TAKEOFF AIRCRAFT  
 VERTICAL MOTION  
 1308 2308  
 RT FALLING  
 MOTION  
 TOUCHDOWN  
 VERTICAL AIR CURRENTS  
 VERTICAL FLIGHT  
 VERTICAL LANDING  
 VERTICAL TAKEOFF  
 VERTICAL PERCEPTION  
 0408  
 BT #PERCEPTION  
 SENSORY PERCEPTION  
 RT BODY SWAY TEST  
 GRAVIRECEPTORS  
 OCULOGRAPHIC ILLUSIONS  
 ORIENTATION  
 OTOLITH ORGANS

SPACE ORIENTATION  
 VESTIBULAR TESTS  
 VERTICAL STABILIZERS  
 USE STABILIZERS (FLUID DYNAMICS)  
 VERTICAL TAILS  
 USE STABILIZERS (FLUID DYNAMICS)  
 TAIL ASSEMBLIES  
 VERTICAL TAKEOFF  
 0201 0209 3102  
 UP VERTICAL TAKEOFF AND LANDING  
 VTOL  
 BT TAKEOFF  
 RT VERTICAL FLIGHT  
 VERTICAL LANDING  
 VERTICAL MOTION  
 VERTICAL TAKEOFF AIRCRAFT  
 0209  
 UP VTO FIGHTER AIRCRAFT  
 VTOL AIRCRAFT  
 NT FLYING PLATFORMS  
 SC-1 AIRCRAFT  
 VJ-101 AIRCRAFT  
 VZ-8 AIRCRAFT  
 X-22A AIRCRAFT  
 X-13 AIRCRAFT  
 X-14 AIRCRAFT  
 X-19 AIRCRAFT  
 X-22 AIRCRAFT  
 IC-142 AIRCRAFT  
 XV-11A AIRCRAFT  
 XV-4 AIRCRAFT  
 BT #V/STOL AIRCRAFT  
 RT AIRCRAFT  
 CP-700 ENGINE  
 COMPOUND HELICOPTERS  
 PAN IN WING AIRCRAFT  
 GETOL AIRCRAFT  
 HELICOPTERS  
 LIFT PANS  
 LIFTING ROTORS  
 MILITARY AIRCRAFT  
 RESEARCH AIRCRAFT  
 ROTARY WING AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 SUBSONIC AIRCRAFT  
 T-58 ENGINE  
 T-58-GE-8B ENGINE  
 TF-106 ENGINE  
 TILT WING AIRCRAFT  
 VERTICAL LANDING  
 WINGED VEHICLES  
 VERTICAL TAKEOFF AND LANDING  
 USE VERTICAL LANDING  
 VERTICAL TAKEOFF  
 VERTICES  
 USE APEXES  
 VERTIGO  
 0401 0405 0408  
 BT SIGNS AND SYMPTOMS  
 RT BARANY CHAIR  
 EAR PRESSURE TEST  
 VESTIBULAR TESTS  
 VERTOL MILITARY HELICOPTERS  
 USE BOEING AIRCRAFT  
 VERY HIGH FREQUENCIES  
 0702 0710 2309 2312 2402  
 (30 TO 300 MHZ)  
 NT P BAND  
 BT #FREQUENCIES  
 RADIO FREQUENCIES  
 RT DECAHETRIC WAVES  
 LOW FREQUENCY BANDS  
 MAXIMUM USABLE FREQUENCY  
 VERY HIGH FREQUENCY RADIO EQUIPMENT  
 VERY HIGH FREQUENCY RADIO EQUIPMENT  
 0701 0705 0710 2402  
 UP ULTRA SHORT WAVE RADIO EQUIPMENT  
 BT #RADIO EQUIPMENT  
 RT RADIO ASTRONOMY  
 ULTRAHIGH FREQUENCIES  
 VERY HIGH FREQUENCIES  
 VERY LOW FREQUENCIES  
 0710 2309 2402  
 (3 TO 30 KHZ)  
 BT #FREQUENCIES  
 LOW FREQUENCIES  
 RADIO FREQUENCIES  
 RT AUDIO FREQUENCIES  
 VESSELS  
 1103 1106 1108 1502 1504  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED

BELOW)  
 RT BLOOD VESSELS  
 LIQUID-FILLED SHELLS  
 SHIPS  
 VESTA ASTEROID  
 1901 3001 3008  
 BT ASTEROIDS  
 #CELESTIAL BODIES  
 RT METEOROLIDS  
 SOLAR SYSTEM  
 SPACE DEBRIS  
 VESTIBULAR TESTS  
 0401 0501 0502  
 BT PHYSIOLOGICAL TESTS  
 RT BODY SWAY TEST  
 CORIOLIS EFFECT  
 EAR PRESSURE TEST  
 VERTICAL PERCEPTION  
 VERTIGO  
 VESTIBULES  
 0404 0408  
 BT #ANATOMY  
 EAR  
 LABYRINTH  
 SENSE ORGANS  
 RT MORPHOLOGY  
 PASSAGEWAYS  
 SEMICIRCULAR CANALS  
 VESTS  
 0508  
 RT #CLOTHING  
 VPR (RULES)  
 USE VISUAL FLIGHT RULES  
 VWP OMNIRANGE NAVIGATION  
 0702 0705 0709 2102 2402  
 UP OMNIRANGE NAVIGATION  
 VOR SYSTEMS  
 BT #NAVIGATION  
 RADIO NAVIGATION  
 RT AIR NAVIGATION  
 #NAVIGATION AIDS  
 RADIO DIRECTION FINDERS  
 SOLAR COMPASSES  
 VIABILITY  
 0401 0404 0405 0507  
 RT #ANIMALS  
 CROP VIGOR  
 GERMINATION  
 #GROWTH  
 #PLANTS (BOTANY)  
 SEEDS  
 \*VIBRATION  
 0101 0506 1308 2311 3009 3407  
 UP JITTER  
 NT BENDING VIBRATION  
 BREATHING VIBRATION  
 COMBUSTION VIBRATION  
 FLUTTER  
 FORCED VIBRATION  
 FREE VIBRATION  
 LATTICE VIBRATIONS  
 LINEAR VIBRATION  
 MISSILE VIBRATION  
 PANEL FLUTTER  
 POGO EFFECTS  
 RANDOM VIBRATION  
 RESONANT VIBRATION  
 SELF INDUCED VIBRATION  
 STRUCTURAL VIBRATION  
 SUBSONIC FLUTTER  
 SUPERSONIC FLUTTER  
 TORSIONAL VIBRATION  
 TRANSONIC FLUTTER  
 RT ACOUSTICS  
 AMPLITUDES  
 ANTINODES  
 COMPACTING  
 CYCLIC LOADS  
 DISPLACEMENT  
 DYNAMICS  
 #ELASTIC WAVES  
 FATIGUE (MATERIALS)  
 FLAPPING  
 HARMONICS  
 MECHANICAL OSCILLATORS  
 MECHANICAL SHOCK  
 MODES (STANDING WAVES)  
 MOTION  
 NODES (STANDING WAVES)  
 NOTATION  
 OSCILLATING CYLINDERS  
 #OSCILLATIONS

# VIBRATION DAMPERS

#OSCILLATORS  
#RESONANCE  
SHAKING  
SHOCK RESISTANCE  
SPACECRAFT MOTION  
STANDING WAVES  
VIBRATION DAMPING  
VIBRATION MODE  
VIBRATORY POLISHING  
WAVES  
WING OSCILLATIONS  
VIBRATION DAMPERS  
USE VIBRATION ISOLATORS  
VIBRATION DAMPING  
1504 2308 3203  
BT DAMPING  
RT ACOUSTICS  
#ATTENUATION  
ELASTIC DAMPING  
MOLECULAR RELAXATION  
NONOSCILLATORY ACTION  
NONSTABILIZED OSCILLATION  
SHOCK ABSORBERS  
#VIBRATION  
VIBRATION ISOLATORS  
#VIBRATION TESTS  
VIBRATION EFFECTS  
0101 0102 0404 3203  
BT POGO EFFECTS  
RT EFFECTS  
SUPPORT INTERFERENCE  
VIBRATIONAL STRESS  
VIBRATION ISOLATORS  
1504 3203  
UP VIBRATION DAMPERS  
VIBRATION PROTECTION  
RT ABSORBERS  
CUSHIONS  
DAMPERS  
DAMPERS (VALVES)  
DAMPING  
#ENERGY ABSORPTION  
NOISE REDUCTION  
OSCILLATION DAMPERS  
SHOCK ABSORBERS  
SPRINGS (ELASTIC)  
SUSPENSION SYSTEMS (VEHICLES)  
VIBRATION DAMPING  
VIBRATION MEASUREMENT  
0501 1406 3203  
BT #MECHANICAL MEASUREMENT  
RT DAMPING TESTS  
FREQUENCY ANALYZERS  
FREQUENCY MEASUREMENT  
MEASUREMENT  
STRESS MEASUREMENT  
VIBRATION METERS  
VIBRATION PERCEPTION  
#VIBRATION TESTS  
VIBRATIONAL SPECTRA  
VIBRATION METERS  
0501 1406 3203  
UP VIBRATION PICKUPS  
VIBROMETERS  
BT LUNAR SEISMOGRAPHS  
SEISMOGRAPHS  
BT #MEASURING INSTRUMENTS  
RT ACCELEROMETERS  
#TRANSDUCERS  
VIBRATION MEASUREMENT  
VIBRATION MODE  
0710 2308 3203  
UP MODE OF VIBRATION  
BT UNCOUPLED MODES  
BT #MODES  
RT FREE VIBRATION  
LINEAR VIBRATION  
MODE TRANSFORMERS  
TRANSVERSE WAVES  
#VIBRATION  
VIBRATION PERCEPTION  
0401 0408  
BT #PERCEPTION  
SENSORY PERCEPTION  
RT VIBRATION MEASUREMENT  
VIBRATION PICKUPS  
USE #TRANSDUCERS  
VIBRATION METERS  
VIBRATION PROTECTION  
USE VIBRATION ISOLATORS  
VIBRATION SIMULATORS  
1107 1108 3203

UP VIBRATION TESTING MACHINES  
BT #SIMULATORS  
RT FLUTTER  
SHAKERS  
SHOCK SIMULATORS  
#VIBRATION TESTS  
VIBRATORY LOADS  
VIBRATION TESTING MACHINES  
USE VIBRATION SIMULATORS  
#VIBRATION TESTS  
1106 1108 3203 1505  
BT DAMPING TESTS  
STROKING TESTS  
RT DESTRUCTIVE TESTS  
DYNAMIC TESTS  
ELECTRONIC EQUIPMENT TESTS  
ENGINE TESTS  
#ENVIRONMENTAL TESTS  
FLIGHT TESTS  
FLUTTER  
MECHANICAL ENGINEERING  
#OSCILLATIONS  
RESONANCE TESTING  
SHOCK TESTS  
STABILITY TESTS  
STATIC TESTS  
STRUCTURAL VIBRATION  
TESTS  
VIBRATION DAMPING  
VIBRATION MEASUREMENT  
VIBRATION SIMULATORS  
VIBRATIONAL FREEZING  
2301 2302 2312  
BT FREEZING  
#PHASE TRANSFORMATIONS  
VIBRATIONAL FREQUENCIES  
USE VIBRATIONAL SPECTRA  
VIBRATIONAL RELAXATION  
USE MOLECULAR RELAXATION  
VIBRATIONAL SPECTRA  
1411 2306 2402 2601  
UP VIBRATIONAL FREQUENCIES  
BT ELECTROMAGNETIC SPECTRA  
MOLECULAR SPECTRA  
RADIATION SPECTRA  
#SPECTRA  
RT ELECTRONIC SPECTRA  
ENERGY SPECTRA  
MOLECULAR RELAXATION  
RAMAN SPECTRA  
SHOCK SPECTRA  
TRANSIENT OSCILLATIONS  
VIBRATION MEASUREMENT  
VIBRATIONAL STRESS  
0101 0102 0404 0408 3203  
BT #STRESSES  
RT FLUTTER  
VIBRATION EFFECTS  
VIBRATORY LOADS  
VIBRATORS  
USE ELECTRIC CHOPPERS  
VIBRATORY LOADS  
0101 1704 3203  
BT DYNAMIC LOADS  
#LOADS (FORCES)  
RT AERODYNAMIC LOADS  
CYCLIC LOADS  
VIBRATION SIMULATORS  
VIBRATIONAL STRESS  
VIBRATORY POLISHING  
1504 1507  
BT #POLISHING  
RT METALLOGRAPHY  
#VIBRATION  
VIBROCARDIOGRAPHY  
USE PHONOCARDIOGRAPHY  
VIBROMETERS  
USE VIBRATION METERS  
VICKERS 1100 AIRCRAFT  
USE VC-10 AIRCRAFT  
VICKERS SCIMITAR AIRCRAFT  
USE SCIMITAR AIRCRAFT  
VICKERS VA-3 HOVERCRAFT  
USE VA-3 GROUND EFFECT MACHINE  
VICKERS VALIANT AIRCRAFT  
USE VALIANT AIRCRAFT  
VICKERS VC-10 AIRCRAFT  
USE VC-10 AIRCRAFT  
VICTOR BK-1 AIRCRAFT  
0207  
BT BOHBER AIRCRAFT  
HANDLEY PAGE AIRCRAFT

# NASA THESAURUS (ALPHABETICAL LISTING)

#JET AIRCRAFT  
MONOPLANES  
RT RECONNAISSANCE AIRCRAFT  
VIDEO COMMUNICATION  
0404 0702 0709 2306 2310  
BT #TELECOMMUNICATION  
RT TELEVISION SYSTEMS  
VIDEO DATA  
VIDEO EQUIPMENT  
VIDEO DATA  
0702 0703 0708 0802 3405  
RT ANALOG DATA  
DATA  
DATA CONVERTERS  
DATA TRANSMISSION  
DIGITAL DATA  
#DISPLAY DEVICES  
RADAR DATA  
SHEAR  
#TELECOMMUNICATION  
TELEVISION SYSTEMS  
VIDEO COMMUNICATION  
VIDEO EQUIPMENT  
0701 0702 0905  
RT ADVANCED VIDICON CAMERA SYSTEM  
(AVCS)  
CAMERA TUBES  
CATHODE RAY TUBES  
COMPENSATORS  
#DISPLAY DEVICES  
FLYING SPOT SCANNERS  
MOTION PICTURES  
OPTICAL EQUIPMENT  
OSCILLOSCOPES  
TELEVISION EQUIPMENT  
VIDEO COMMUNICATION  
VIDICONS  
VIDICONS  
0701 0702 0905 1409  
BT RETURN BEAM VIDICONS  
THERMIONS  
BT CAMERA TUBES  
#ELECTRON TUBES  
RT ADVANCED VIDICON CAMERA SYSTEM  
(AVCS)  
FIBER OPTICS  
VIDEO EQUIPMENT  
VIETNAM  
1305  
RT ASIA  
NATIONS  
VIEW EFFECTS  
0408 1407 2402 3303  
(EFFECTS OF CHANGE IN ANGULAR SIZE OF  
FIELD OF VIEW UPON RECEPTORS OF  
RADIATION)  
RT ANGULAR CORRELATION  
EFFECTS  
RADIANT FLUX DENSITY  
RADIATION MEASURING INSTRUMENTS  
RADIATIVE HEAT TRANSFER  
VIEWING  
VIEWING  
1412 1505 3407  
BT #DISPLAY DEVICES  
PERISCOPES  
VIEW EFFECTS  
VISIBILITY  
VISION  
VIGILANTE AIRCRAFT  
USE A-5 AIRCRAFT  
VIGNETTING  
1407 2306 2310  
RT #DEFECTS  
FOCUSING  
LENSES  
VIKING LANDER SPACECRAFT  
3007 3108 3110  
BT #INTERPLANETARY SPACECRAFT  
MARS PROBES  
RT INTERPLANETARY TRAJECTORIES  
NASA PROGRAMS  
SPACE EXPLORATION  
#SPACE FLIGHT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VIKING MARS PROGRAM  
VIKING ORBITER SPACECRAFT  
VIKING ORBITER 1975  
VIKING MARS PROGRAM  
3007 3108 3409  
BT MARS PROBES

# NASA THESAURUS (ALPHABETICAL LISTING)

NASA PROGRAMS  
SPACE EXPLORATION  
\*SPACE FLIGHT  
SPACE PROBES  
RT VIKING LANDER SPACECRAFT  
VIKING ORBITER SPACECRAFT  
VIKING ORBITER SPACECRAFT  
3007 3108 3110  
NT VIKING ORBITER 1975  
BT \*INTERPLANETARY SPACECRAFT  
MARS PROBES  
RT INTERPLANETARY TRAJECTORIES  
NASA PROGRAMS  
PLANETARY ORBITS  
\*SATELLITES  
SPACE EXPLORATION  
\*SPACE FLIGHT  
SPACE PROBES  
SPACECRAFT  
\*UNMANNED SPACECRAFT  
VIKING LANDER SPACECRAFT  
VIKING MARS PROGRAM  
VIKING ORBITER 1975  
3007 3108 3110  
BT VIKING ORBITER SPACECRAFT  
RT NASA PROGRAMS  
VIKING LANDER SPACECRAFT  
VIKING ROCKET VEHICLE  
3106 3401  
BT \*ROCKET VEHICLES  
SINGLE-STAGE ROCKET VEHICLES  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS  
VANGUARD 2 LAUNCH VEHICLE  
VINTI THEORY  
1904 3009  
RT GEODESY  
ORBIT PERTURBATION  
VINYL COPOLYMERS  
1808 1809 1810  
BT ADDITION RESINS  
\*PLASTICS  
POLYMERIZATION  
\*RESINS  
SYNTHETIC RESINS  
RT \*ADDITIVES  
COPOLYMERS  
POLYMERS  
VINYL RADICAL  
VINYL CYANIDE  
USE ACRYLONITRILES  
VINYL ETHYLENE  
USE BUTADIENE  
VINYL POLYMERS  
1805 1808 1810  
RT POLYMERS  
POLYVINYL ALCOHOL  
POLYVINYL CHLORIDE  
VINYL RADICAL  
VINYL RADICAL  
1805 1808  
RT FREE RADICALS  
VINYL COPOLYMERS  
VINYL POLYMERS  
VINYLIDENE  
1808 1809 1810  
BT \*ALIPHATIC COMPOUNDS  
ALKENES  
ETHYLENE  
\*HYDROCARBONS  
VIOLENCE  
0408 0410 3402 3403  
NT ATTACKING (ASSAULTING)  
BT DISORDERS  
POLICE  
WARFARE  
VIRGILIA  
1305  
BT UNITED STATES OF AMERICA  
VIRGO STAR CLUSTER  
3001  
BT \*CELESTIAL BODIES  
STAR CLUSTERS  
RT STARS  
VIRIAL THEOREM  
0604 1902 2403  
RT KINETIC ENERGY  
KINETIC EQUATIONS  
MECHANICS (PHYSICS)  
VIRTUAL PROPERTIES  
2311 3408  
RT ACCURACY

PHYSICAL PROPERTIES  
VIRTUAL WORK  
USE EQUILIBRIUM  
VIRULENCE  
0405 0407 0412  
RT \*MICROORGANISMS  
TOXICITY  
VIRUSES  
VIRUSES  
0405 0407 0412  
NT ADENOVIRUSES  
BACTERIOPHAGES  
BT \*MICROORGANISMS  
BLISTERS  
RT INTERFERON  
PROTOBIOLOGY  
VIRULENCE  
\*VISCERA  
0404 0405  
NT ADRENAL GLAND  
APPENDIX (ANATOMY)  
BLADDER  
ENDOCRINE GLANDS  
ESOPHAGUS  
GONADS  
INTESTINES  
KIDNEYS  
LIVER  
LUNGS  
ORGANS  
OVARIES  
PANCREAS  
PARATHYROID GLAND  
PINEAL GLAND  
PITUITARY GLAND  
PROSTATE GLAND  
RECTUM  
SEX GLANDS  
SPLEEN  
STOMACH  
TESTES  
THYMUS GLAND  
THYROID GLAND  
RT ABDOMEN  
VISCOELASTIC CYLINDERS  
0101 0102 1809 3203  
RT CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL SHELLS  
VISCOELASTIC DAMPING  
USE ELASTIC DAMPING  
VISCOUS DAMPING  
VISCOELASTIC FLOW  
USE VISCOELASTICITY  
VISCOELASTICITY  
1202 2311 3408  
UP VISCOELASTIC FLOW  
NT PHOTOVISCOELASTICITY  
THERMOVISCOELASTICITY  
BT ELASTIC PROPERTIES  
\*MECHANICAL PROPERTIES  
RT HYDROELASTICITY  
HYSTERESIS  
MAXWELL FLUIDS  
NONNEWTONIAN FLOW  
NONNEWTONIAN FLUIDS  
PLASTIC FLOW  
RELAXATION (MECHANICS)  
VISCOPLASTICITY  
VISCOUS DAMPING  
VISCOMETERS  
1202 1203 1406 3203  
BT \*MEASURING INSTRUMENTS  
RT ROTATING CYLINDERS  
VISCOMETRY  
VISCOSITY  
VISCOMETRY  
1202 1203 1406 3203  
RT ROTATING CYLINDERS  
VISCOMETERS  
VISCOSITY  
VISCOUS DRAG  
VISCOUS FLOW  
VISCOPLASTIC FLOW  
USE VISCOPLASTICITY  
VISCOPLASTICITY  
1202 1809 3203  
UP VISCOPLASTIC FLOW  
BT \*MECHANICAL PROPERTIES  
PLASTIC PROPERTIES  
HYSTERESIS  
NONNEWTONIAN FLOW

## VISCIOUS FLOW

NONNEWTONIAN FLUIDS  
PLASTIC ANISOTROPY  
PLASTIC FLOW  
RELAXATION (MECHANICS)  
VISCOELASTICITY  
VISCOUS DAMPING  
VISCOPUMPS  
1202 1501 1504  
BT \*PUMPS  
RT VISCIOUS FLOW  
VISCOSITY  
1202 2311 3408  
NT EDDY VISCOSITY  
GAS VISCOSITY  
BT \*TRANSPORT PROPERTIES  
DENSITY (MASS/VOLUME)  
RT FLOW CHARACTERISTICS  
FLOW RESISTANCE  
INTERNAL FRICTION  
MOTION  
PHYSICAL PROPERTIES  
RHEOLOGY  
SIMILITUDE LAW  
SOLUBILITY  
STOKES LAW (FLUID MECHANICS)  
SUPERFLUIDITY  
\*SURFACE PROPERTIES  
THERMAL DIFFUSION  
THERMAL DIFFUSIVITY  
THIXOTROPY  
VISCOMETERS  
VISCOMETRY  
VISCOUS FLOW  
VISCOUNT AIRCRAFT  
0204  
BT \*BAC AIRCRAFT  
\*JET AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
\*TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
VISCIOUS DAMPING  
1809 2308 2403  
UP VISCOELASTIC DAMPING  
BT DAMPING  
RT ELASTIC DAMPING  
RESONANCE TESTING  
VISCOELASTICITY  
VISCOPLASTICITY  
VISCOS DRAG  
0101 1203 2308 3203  
BT DRAG  
\*DYNAMIC CHARACTERISTICS  
FLOW RESISTANCE  
\*FRICTION  
FRICTION DRAG  
SKIN FRICTION  
RT EDDY VISCOSITY  
HARTMANN NUMBER  
LAMINAR FLOW  
TURBULENT FLOW  
VISCOMETRY  
VISCOS FLOW  
1201 1202 1203  
BT BOUNDARY LAYER FLOW  
BOUNDARY LAYER SEPARATION  
COUETTE FLOW  
REATTACHED FLOW  
SECONDARY FLOW  
SEPARATED FLOW  
STOKES FLOW  
BT \*FLUID FLOW  
RT AERODYNAMICS  
BAROTROPIC FLOW  
EDDY VISCOSITY  
FLOW CHARACTERISTICS  
GAS FLOW  
INVISCID FLOW  
KNUDSEN FLOW  
LAMINAR FLOW  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
MAXWELL FLUIDS  
MILNE-THOMSON METHOD  
NAVIER-STOKES EQUATION  
POHLHAUSEN METHOD  
PRANDTL NUMBER  
REYNOLDS NUMBER  
TURBULENT FLOW  
VISCOMETRY  
VISCOPUMPS  
VISCOSITY  
VISCIOUS FLUIDS

# VISCOUS FLUIDS

WEDGE FLOW  
 VISCOUS FLUIDS  
 1202 1203  
 RT FLOW STABILITY  
 FLUIDS  
 MAXWELL FLUIDS  
 NAVIER-STOKES EQUATION  
 NEWTONIAN FLUIDS  
 NONNEWTONIAN FLUIDS  
 OSEEN APPROXIMATION  
 SEMISOLIDS  
 VISCOUS FLOW  
 WEIGHTLESS FLUIDS  
 VISIBILITY  
 0408 0502 2103  
 UP INVISIBILITY  
 RT LOW VISIBILITY  
 RT BRIGHTNESS  
 CEILINGS (METEOROLOGY)  
 CHARACTER RECOGNITION  
 COLOR  
 CONTRAST  
 DARKENING  
 FOG  
 GLARE  
 HAZE  
 HUMAN FACTORS: ENGINEERING  
 ILLUMINANCE  
 IMAGE CONTRAST  
 LEGIBILITY  
 LIGHT (VISIBLE RADIATION)  
 LIGHT TRANSMISSION  
 LUMINESCENCE  
 LUMINOSITY  
 OPACITY  
 OPTICAL PROPERTIES  
 #PERCEPTION  
 RADIANCE  
 READING  
 #RESOLUTION  
 RETINAL ADAPTATION  
 #SENSITIVITY  
 SMOKE  
 SYMBOLS  
 TRANSMISSIVITY  
 VIEWING  
 VISION  
 VISUAL CONTROL  
 WHITEOUT  
 VISIBLE RADIATION  
 USE LIGHT (VISIBLE RADIATION)  
 VISIBLE SPECTRUM  
 USE LIGHT (VISIBLE RADIATION)  
 #SPECTRA  
 VISION  
 0404 0408  
 UP MACULAR VISION  
 NT BINOCULAR VISION  
 COLOR VISION  
 MONOCULAR VISION  
 NIGHT VISION  
 STEREOSCOPIC VISION  
 RT #ADAPTATION  
 ANASTIGMATISM  
 BLINDNESS  
 BRIGHTNESS  
 CHOROID MEMBRANES  
 COLOR  
 CONJUNCTIVA  
 CONTRAST  
 CORNEA  
 DARK ADAPTATION  
 EYE (ANATOMY)  
 EYE DOMINANCE  
 FLASH BLINDNESS  
 GLARE  
 HETEROPHORIA  
 HETEROTROPIA  
 HUMAN FACTORS: ENGINEERING  
 HYPEROPIA  
 ILLUSIONS  
 IMAGES  
 LEGIBILITY  
 LIGHT ADAPTATION  
 MIOSIS  
 NYOPIA  
 OCULOMOTOR NERVES  
 OPHTHALMODYNAMOMETRY  
 OPTOMETRY  
 #PERCEPTION  
 PHOSPHENE  
 PRESBYOPIA

PUPILS  
 #RESOLUTION  
 RETINA  
 RETINAL ADAPTATION  
 THRESHOLDS (PERCEPTION)  
 VIEWING  
 VISIBILITY  
 VISUAL ACUITY  
 VISIOPLASTICITY  
 USE FLOW VISUALIZATION  
 PLASTIC FLOW  
 VISORS  
 0508  
 RT EYE PROTECTION  
 RADIATION PROTECTION  
 SUNGLASSES  
 VISUAL ACCOMMODATION  
 0404 0408  
 BT ACCOMMODATION  
 VISUAL ACUITY  
 0408 0502  
 NT HYPEROPIA  
 BT #ACUITY  
 RT SNELLEN TESTS  
 VISION  
 VISUAL OBSERVATION  
 VISUAL PERCEPTION  
 VISUAL AIDS  
 0405 0408 0508 0502  
 UP AUDIO VISUAL EQUIPMENT  
 RT #CHARTS  
 DIAGRAMS  
 #DISPLAY DEVICES  
 DRAWINGS  
 PHOTOGRAPHS  
 TRAINING DEVICES  
 VISUAL CONTROL  
 0502 0503 0506 2102  
 RT AIRCRAFT CONTROL  
 APPROACH CONTROL  
 #ATTITUDE CONTROL  
 CONTROL  
 #DISPLAY DEVICES  
 #GUIDANCE (MOTION)  
 MISSILE CONTROL  
 REMOTE CONTROL  
 RUNWAY LIGHTS  
 SERVOCONTROL  
 #SPACECRAFT CONTROL  
 VISIBILITY  
 VISUAL FLIGHT  
 VISUAL CUES  
 USE CUES  
 VISUAL PERCEPTION  
 VISUAL DISCRIMINATION  
 0405 0408  
 BT #DISCRIMINATION  
 #PERCEPTION  
 SENSORY DISCRIMINATION  
 SENSORY PERCEPTION  
 VISUAL PERCEPTION  
 RT RECOVERY  
 VISUAL OBSERVATION  
 VISUAL DISPLAYS  
 USE #DISPLAY DEVICES  
 VISUAL FIELDS  
 0404 0408  
 RT FIELDS  
 RETINA  
 SPACE PERCEPTION  
 VISUAL FLIGHT  
 0201 0408 0502  
 RT AIR NAVIGATION  
 COLLISION AVOIDANCE  
 FLIGHT  
 FLIGHT CONDITIONS  
 FLIGHT PATHS  
 FLIGHT SAFETY  
 #LANDING  
 VISUAL CONTROL  
 VISUAL FLIGHT RULES  
 VISUAL FLIGHT RULES  
 0203 0502 1101 1402  
 UP VFR (RULES)  
 RT FLIGHT RULES  
 VISUAL FLIGHT  
 VISUAL OBSERVATION  
 0408 0502  
 BT OBSERVATION  
 RT COMPANION STARS  
 VISUAL ACUITY  
 VISUAL DISCRIMINATION

# NASA THESAURUS (ALPHABETICAL LISTING)

VISUAL PERCEPTION  
 VISUAL TASKS  
 VISUAL PERCEPTION  
 0404 0408  
 UP SIGHT  
 VISUAL CUES  
 RT AUTOKINESIS  
 CRITICAL FLICKER FUSION  
 SPACE PERCEPTION  
 VISUAL DISCRIMINATION  
 BT #PERCEPTION  
 SENSORY PERCEPTION  
 RT AFTERIMAGES  
 BRIGHTNESS DISCRIMINATION  
 ELEVATOR ILLUSION  
 ORIENTATION  
 SPACE ORIENTATION  
 TACHISTOSCOPIES  
 VISUAL ACUITY  
 VISUAL OBSERVATION  
 VISUAL TASKS  
 VISUAL PHOTOMETRY  
 0408 1411 2306 3004  
 BT #OPTICAL MEASUREMENT  
 PHOTOMETRY  
 VISUAL SIGNALS  
 0408 0506 0702  
 RT BEACONS  
 LUMINAIRES  
 OPTICAL COMMUNICATION  
 SIGNALS  
 VISUAL STIMULI  
 0404 0408  
 RT STIMULI  
 VISUAL TASKS  
 0408 0410 0502  
 BT TASKS  
 RT VISUAL OBSERVATION  
 VISUAL PERCEPTION  
 VISUAL TRACKING  
 USE OPTICAL TRACKING  
 VISUALIZATION OF FLOW  
 USE FLOW VISUALIZATION  
 VITAMIN A  
 USE RETINENE  
 VITAMIN B  
 USE THIAMINE  
 VITAMIN B COMPLEX  
 USE BIOTIN  
 VITAMIN B 02  
 USE RIBOFLAVIN  
 VITAMIN B 06  
 USE PYRIDOXINE  
 VITAMIN B 12  
 USE CYANOCOBALAMIN  
 VITAMIN C  
 USE ASCORBIC ACID  
 VITAMIN D  
 USE CALCIFEROL  
 VITAMIN E  
 USE TOCOPHEROL  
 VITAMIN G  
 USE RIBOFLAVIN  
 VITAMIN K  
 USE PHYLLOQUINONE  
 VITAMIN M  
 USE FOLIC ACID  
 VITAMIN P  
 USE BIOPFLAVONOIDS  
 VITAMINS  
 0403 1808  
 NT ASCORBIC ACID  
 BIOFLAVONOIDS  
 BIOTIN  
 CALCIFEROL  
 CARNITINE  
 CYANOCOBALAMIN  
 FOLIC ACID  
 NICOTINAMIDE  
 NICOTINIC ACID  
 PHYLLOQUINONE  
 PYRIDOXINE  
 RETINENE  
 RIBOFLAVIN  
 THIAMINE  
 TOCOPHEROL  
 RT #DRUGS  
 FOOD  
 NUTRIENTS  
 VITON  
 1802 1808 3305  
 BT #PLASTICS

# WASA THESAURUS (ALPHABETICAL LISTING)

BT FLUOROHYDROCARBONS  
VITON RUBBER (TRADEMARK)  
1808 1809 1810  
BT ELASTOMERS  
#RUBBER  
SYNTHETIC RUBBERS  
VITREOUS MATERIALS  
1801 1805  
RT FRIT  
GLASS  
INORGANIC MATERIALS  
MATERIALS  
PORCELAIN  
VJ-101 AIRCRAFT  
0207 0209  
UF SUD VJ-101 AIRCRAFT  
BT BVR AIRCRAFT  
#JET AIRCRAFT  
HOBOPLANES  
#SUD AVIATION AIRCRAFT  
#SUPERSONIC AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
VLASOV EQUATIONS  
1902 2309 2402 2403  
BT #ANALYSIS (MATHEMATICS)  
DIFFERENTIAL EQUATIONS  
REAL VARIABLES  
RT #STABILITY  
VLF EMISSION RECORDERS  
0701 0705 0710 0905 2402  
RT #ATMOSPHERIC RADIATION  
ATMOSPHERICS  
COSMIC RAYS  
#ELECTROMAGNETIC RADIATION  
PLANETARY RADIATION  
RECORDERS  
#RECORDING INSTRUMENTS  
VOCAL CORDS  
0404 0408  
RT GLOTTIS  
LARYNX  
VOCODERS  
0701 0702 0703 0802  
RT BANDPASS FILTERS  
COMPUTERS  
DIGITAL TO VOICE TRANSLATORS  
FREQUENCY MODULATION  
MESSAGES  
RADIO COMMUNICATION  
SCRAMBLING (COMMUNICATION)  
SIGNAL RECEPTION  
VOICE COMMUNICATION  
VOICE DATA PROCESSING  
VOICE  
0408 2301  
BT SOUND PROPAGATION  
RT AUDIO FREQUENCIES  
#SPEECH  
TONGUE  
VOICE COMMUNICATION  
0408 0410 0702 2301  
RT TELEPHONY  
VOICE DATA PROCESSING  
BT #TELECOMMUNICATION  
ACOUSTICS  
CONVERSATION  
ECHO SUPPRESSORS  
GROUND-AIR-GROUND COMMUNICATIONS  
RADIOTELEPHONES  
REENTRY COMMUNICATION  
SCRAMBLING (COMMUNICATION)  
SINGLE SIDEBAND TRANSMISSION  
#SPEECH  
VERBAL COMMUNICATION  
VOCODERS  
VOICE OF AMERICA  
WIRELESS COMMUNICATIONS  
WORDS (LANGUAGE)  
VOICE DATA PROCESSING  
0501 0802 0803 3405  
BT #DATA PROCESSING  
#TELECOMMUNICATION  
VOICE COMMUNICATION  
RT ARTIFICIAL INTELLIGENCE  
DIGITAL TO VOICE TRANSLATORS  
SIGNAL ENCODING  
VERBAL COMMUNICATION  
VOCODERS  
VOICE OF AMERICA  
0702 0705 3403 3405  
RT BROADCASTING

RADIO TRANSMISSION  
VOICE COMMUNICATION  
VOID RATIO  
1203 2203 2204  
UF COMPACTNESS  
BT #RATIOS  
RT CONDUCTIVITY  
DENSITY (MASS/VOLUME)  
FREE FLOW  
HOLE DISTRIBUTION (MECHANICS)  
PACKING DENSITY  
PERMEABILITY  
POROSITY  
REACTOR CORES  
#SURFACE PROPERTIES  
VOIDS  
VOIDS  
1704 2311 2601  
RT BUOYANCY  
CAVITIES  
#DEFECTS  
INCLUSIONS  
INFILTRATION  
INTERSTICES  
PERCOLATION  
PERMEABILITY  
POROSITY  
VOID RATIO  
VOIGT EFFECT  
1203 2306 2307 2310  
RT BIREFRINGENCE  
OPTICAL PATHS  
#REFRACTION  
ZEEMAN EFFECT  
VOLATILITY  
0603 3301  
BT #THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
RT EVAPORATION  
FLASH POINT  
VAPOR PHASES  
VAPOR PRESSURE  
VAPORIZING  
VOLATILIZATION  
USE VAPORIZING  
VOLCANICS  
USE VOLCANOLOGY  
VOLCANOLOGY  
1305 1306 1308  
UF VOLCANICS  
BT #GEOLOGY  
RT BASALT  
CALDERAS  
EFFUSIVES  
GEOMORPHOLOGY  
LAVA  
MOUNTAINS  
OROGRAPHY  
PALEOMAGNETISM  
PETROLOGY  
ROUSE BELTS  
VOLT-AMPERE CHARACTERISTICS  
1002 1704 2304  
RT CHARACTERISTICS  
#ELECTRIC CURRENT  
ELECTRIC POTENTIAL  
ELECTRONICS  
LINEAR CIRCUITS  
OHMS LAW  
VOLTAGE AMPLIFIERS  
VOLTAGE  
USE ELECTRIC POTENTIAL  
VOLTAGE AMPLIFIERS  
0902 0904 2304  
BT #AMPLIFIERS  
RT CURRENT AMPLIFIERS  
FEEDBACK AMPLIFIERS  
MAGNETIC AMPLIFIERS  
PREAMPLIFIERS  
VOLT-AMPERE CHARACTERISTICS  
VOLTAGE BREAKDOWN  
USE ELECTRICAL FAULTS  
VOLTAGE GENERATORS  
0302 0904  
RT PHOTOVOLTAIC CELLS  
RT ARC GENERATORS  
ELECTROSTATIC GENERATORS  
FUNCTION GENERATORS  
GENERATORS  
SIGNAL GENERATORS  
VOLTAGE MEASUREMENT  
USE ELECTRICAL MEASUREMENT

## VORTEX BREAKDOWN

VOLTAGE REGULATORS  
0902 0904  
BT #REGULATORS  
RT AVALANCHE DIODES  
CIRCUIT PROTECTION  
#CONTROLLERS  
CURRENT REGULATORS  
ELECTRIC SWITCHES  
ELECTRONIC CONTROL  
POWER SUPPLY CIRCUITS  
SWITCHING CIRCUITS  
TRANSFORMERS  
TRANSMISSION LOSS  
VOLTAGE VARIATION INDICATORS  
USE VOLTMETERS  
VOLTERRA EQUATIONS  
1202 1902  
BT #ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
INTEGRAL EQUATIONS  
RT NONLINEARITY  
RADIATION  
VOLTMETERS  
0904 0905 1402 1406  
UF VOLTAGE VARIATION INDICATORS  
RT MILLIVOLTMETERS  
BT #MEASURING INSTRUMENTS  
RT AMMETERS  
COULOMETERS  
ELECTROMETERS  
POTENTIOMETERS (INSTRUMENTS)  
VOLUME  
1902 3406 3408  
RT BODY VOLUME (BIOLOGY)  
RT AREA  
CAPACITY  
#DIMENSIONS  
FRUSTUMS  
#GEOMETRY  
ISOCORIC PROCESSES  
#RATES (PER TIME)  
THICKNESS  
VOLUMETRIC ANALYSIS  
WEIGHT (MASS)  
VOLUMETRIC ANALYSIS  
0601  
BT CHEMICAL ANALYSIS  
#CHEMICAL TESTS  
RT ANALYTICAL CHEMISTRY  
GAS ANALYSIS  
QUANTITATIVE ANALYSIS  
VOLUME  
VOLUMETRIC STRAIN  
3203  
RT #DEFORMATION  
STRUCTURAL STRAIN  
VOMITING  
0405 0408  
RT NAUSEA  
VON ARDENNE DUOPLASMATRONS  
2501  
BT DUOPLASMATRONS  
#ION SOURCES  
#PLASMA GENERATORS  
PLASMATRONS  
RT ELECTRIC DISCHARGES  
ION PROPULSION  
PLASMA PROPULSION  
VON KARMAN EQUATION  
0101 1202 1203 3203  
BT FLOW EQUATIONS  
RT FLOW STABILITY  
KARMAN VORTEX STREET  
VORTEX BREAKDOWN  
VORTEX STREETS  
VORTICITY EQUATIONS  
VON MISES THEORY  
USE STRESS FUNCTIONS  
VON ZEIPPEL METHOD  
1901 3001 3003  
RT #EQUATIONS OF MOTION  
HAMILTONIAN FUNCTIONS  
METHODOLOGY  
PERTURBATION THEORY  
VOODOO AIRCRAFT  
USE F-101 AIRCRAFT  
VOR SYSTEMS  
USE VHF OMNIRANGE NAVIGATION  
VORTEX BREAKDOWN  
0101 1202 1203  
RT FLOW STABILITY  
TURBULENT FLOW

# VORTEX COLUMNS

VON KARMAN EQUATION  
VORTEX COLUMNS  
USE VORTICES  
VORTEX DISTURBANCES  
USE VORTICES  
VORTEX FLOW  
USE VORTICES  
VORTEX GENERATION  
USE VORTEX GENERATORS  
VORTEX GENERATORS  
1201 1202 1203 2502  
UP VORTEX GENERATION  
RT AIRFOIL FENCES  
BOUNDARY LAYER CONTROL  
BOUNDARY LAYER SEPARATION  
GENERATORS  
HILSCH TUBES  
INLET FLOW  
VORTEX INJECTORS  
VORTICES  
WING SLOTS  
VORTEX INJECTORS  
1201 1202 1203  
BT INJECTORS  
RT VORTEX GENERATORS  
VORTEX RINGS  
0101 1202 1203  
RT RINGS  
VORTICES  
VORTEX SHEETS  
0101 1201 1202 1203 1204  
RT AIRCRAFT DESIGN  
FLOW DISTRIBUTION  
ROTATING FLUIDS  
SHEETS  
TURBULENT WAKES  
VORTEX SHEETS  
VORTICES  
VORTICITY  
VORTEX SHEETS  
1202 1203 1204  
NT KARMAN VORTEX STREET  
RT DISCONTINUITY  
SHEETS  
TURBULENT WAKES  
VON KARMAN EQUATION  
VORTEX SHEETS  
VORTICES  
VORTEX TUBES  
USE HILSCH TUBES  
VORTICES  
VORTICES  
0101 1201 1202 2311  
UP EDDIES  
ROTATIONAL FLOW  
TIP VORTICES  
VORTEX COLUMNS  
VORTEX DISTURBANCES  
VORTEX FLOW  
VORTEX TUBES  
RT ABRISKOSOV THEORY  
AGITATION  
CAVITATION FLOW  
COUNTERFLOW  
DISTURBANCES  
DIVERGENCE  
FLOW DISTORTION  
FLOW STABILITY  
#FLUID FLOW  
HILSCH TUBES  
KOLMOGOROFF THEORY  
METEOROLOGICAL SOLENOIDS  
MIXING  
RECIRCULATIVE FLUID FLOW  
ROTATING FLUIDS  
ROTATING LIQUIDS  
ROTATION  
SECONDARY FLOW  
STROUHAL NUMBER  
SUPERCONDUCTIVITY  
SUPERFLUIDITY  
#TURBULENCE  
TURBULENT FLOW  
TURBULENT MIXING  
VORTEX GENERATORS  
VORTEX RINGS  
VORTEX SHEETS  
VORTEX SHEETS  
VORTICITY  
#WAKES  
VORTICITY  
1202 1203 1204

BT #ALGEBRA  
#ANALYSIS (MATHEMATICS)  
CALCULUS  
CURL (VECTORS)  
#GEOMETRY  
REAL VARIABLES  
VECTOR ANALYSIS  
VECTOR SPACES  
VECTORS (MATHEMATICS)  
RT ATMOSPHERIC CIRCULATION  
BELTRAMI FLOW  
CROCCO METHOD  
FLOW STABILITY  
HELMHOLTZ VORTICITY EQUATION  
POTENTIAL FLOW  
SECONDARY FLOW  
#TURBULENCE  
VORTEX SHEETS  
VORTICES  
VORTICITY EQUATIONS  
1201 1203 1204 1902  
BT FLOW EQUATIONS  
RT #ANALYSIS (MATHEMATICS)  
KARMAN VORTEX STREET  
VON KARMAN EQUATION  
VORTICITY TRANSPORT HYPOTHESIS  
1202 1203 2308  
BT HYPOTHESES  
RT CONSERVATION EQUATIONS  
EDDY CURRENTS  
MIXING LENGTH FLOW THEORY  
TURBULENT FLOW  
VOSKHOD MANNED SPACECRAFT  
3104 3409  
NT VOSKHOD 1 SPACECRAFT  
VOSKHOD 2 SPACECRAFT  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
RT #SPACE CAPSULES  
VOSKHOD 1 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSKHOD MANNED SPACECRAFT  
VOSKHOD 2 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSKHOD MANNED SPACECRAFT  
VOSTOK SPACECRAFT  
3104 3409  
NT VOSTOK 1 SPACECRAFT  
VOSTOK 2 SPACECRAFT  
VOSTOK 3 SPACECRAFT  
VOSTOK 4 SPACECRAFT  
VOSTOK 5 SPACECRAFT  
VOSTOK 6 SPACECRAFT  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
RT #SPACE CAPSULES  
VOSTOK 1 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSTOK SPACECRAFT  
VOSTOK 2 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSTOK SPACECRAFT  
VOSTOK 3 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSTOK SPACECRAFT  
VOSTOK 4 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT

# NASA TREASURY (ALPHABETICAL LISTING)

RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSTOK SPACECRAFT  
VOSTOK 5 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSTOK SPACECRAFT  
VOSTOK 6 SPACECRAFT  
3104  
BT #MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
#REENTRY VEHICLES  
#SOFT LANDING SPACECRAFT  
VOSTOK SPACECRAFT  
VOTING  
3403  
RT GOVERNMENTS  
#LAW (JURISPRUDENCE)  
MINORITIES  
POLITICS  
SOVEREIGNTY  
VOWELS  
0702 3405  
RT CONSONANTS (SPEECH)  
GRAMMARS  
#LANGUAGES  
WORDS (LANGUAGE)  
VOYAGER PROJECT  
3107 3108 3409  
BT #PROGRAMS  
PROJECTS  
RT BEAGLE PROJECT  
MARS PROBES  
SATURN PROJECT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
VOYAGEUR HELICOPTER  
USE CH-46 HELICOPTER  
VTO FIGHTER AIRCRAFT  
USE FIGHTER AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
VTOL  
USE VERTICAL LANDING  
VERTICAL TAKEOFF  
VTOL AIRCRAFT  
USE VERTICAL TAKEOFF AIRCRAFT  
VULCAN AIRCRAFT  
0207  
UP AVRO 698 AIRCRAFT  
BT BOMBER AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
#JET AIRCRAFT  
TAILLESS AIRCRAFT  
RT AVRO 707 AIRCRAFT  
HARRIER AIRCRAFT  
VULCANIZATES  
USE VULCANIZED ELASTONERS  
VULCANIZED ELASTONERS  
1809  
UP GUM VULCANIZATES  
VULCANIZATES  
VULCANIZING  
0602 1504 1808  
BT CROSSLINKING  
RT CURING  
VULNERABILITY  
1702 3401 3408  
RT AIRCRAFT RELIABILITY  
DURABILITY  
INTEGRITY  
LIFE (DURABILITY)  
PENETRATION  
PIERCING  
RELIABILITY  
RESISTANCE  
SECURITY  
#SENSITIVITY  
#STABILITY  
VYCOR  
1801 1805  
BT #FIBERS  
GLASS  
SEMICONDUCTORS (MATERIALS)  
SYNTHETIC FIBERS  
GLASS FIBERS  
RT MATERIALS  
SILICON DIOXIDE



NASA THESAURUS (ALPHABETICAL LISTING)

VZ-12 AIRCRAFT

VZ-2 AIRCRAFT

0209

BT BOEING AIRCRAFT  
RESEARCH AIRCRAFT  
TILT WING AIRCRAFT  
#V/STOL AIRCRAFT

VZ-3 AIRCRAFT

0207 0209

BT MONOPLANES  
RESEARCH AIRCRAFT  
RYAN AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
#V/STOL AIRCRAFT

VZ-8 AIRCRAFT

0207 0209

UP AIRGEEP AIRCRAFT  
BT LIGHT AIRCRAFT  
PIASECKI AIRCRAFT  
RESEARCH AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
RT FLYING PLATFORMS

VZ-10 AIRCRAFT

USE XV-4 AIRCRAFT

VZ-11 AIRCRAFT

USE XV-5 AIRCRAFT

VZ-12 AIRCRAFT

USE P-1127 AIRCRAFT

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# W

W WINGS  
USE VARIABLE SWEEP WINGS  
WA-116 AUTOGYRO  
0209  
UP BEAGLE-WALLIS WA-116 AUTOGYRO  
BT AUTOGYROS  
BEAGLE AIRCRAFT  
RESEARCH AIRCRAFT  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
WAPERS  
0903 0905 1002  
RT MICROELECTRONICS  
MICROMINIATURIZATION  
#MINIATURIZATION  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
THIN FILMS  
WAGE SURVEYS  
3406  
BT REPORTS  
SURVEYS  
RT COST ANALYSIS  
COST ESTIMATES  
COST REDUCTION  
EMPLOYEE RELATIONS  
FINANCE  
#PERSONNEL  
WAGONS  
USE TRAILERS  
WAKEFULNESS  
0408 0502  
RT ALERTNESS  
SLEEP DEPRIVATION  
#WAKES  
0101 0203 1202 2311  
NT AIRCRAFT WAKES  
HELICOPTER WAKES  
HYPERSONIC WAKES  
LAMINAR WAKES  
PROPELLER SLIPSTREAMS  
SLIPSTREAMS  
SUPERSONIC WAKES  
TURBULENT WAKES  
RT BACKWASH  
BASE FLOW  
BUBBLES  
CAVITATION FLOW  
CONTRAILS  
DOWNWASH  
DRAFT  
DRAG  
GROUND EFFECT  
STROUHAL NUMBER  
#TURBULENCE  
VORTICES  
WALKING  
0404  
BT LOCOMOTION  
WALKING MACHINES  
0506 1504  
BT #SURFACE VEHICLES  
RT ASTRONAUT MANEUVERING EQUIPMENT  
LUNAR SURFACE VEHICLES  
MACHINERY  
MANNED LUNAR SURFACE VEHICLES  
PROSTHETIC DEVICES  
WALL FLOW  
1201 1202 1203 2502 3203  
BT #FLUID FLOW  
RT BOUNDARY LAYER FLOW  
CHANNEL FLOW  
CONICAL FLOW  
DISCHARGE COEFFICIENT  
DUCTED FLOW  
HEAT TRANSMISSION  
MANNING THEORY  
TWO DIMENSIONAL FLOW  
TWO DIMENSIONAL JETS  
WALL JETS  
WALL PRESSURE  
WALL JETS  
1201 1202 1203  
RT FLUID AMPLIFIERS  
JET BOUNDARIES  
JET FLOW  
JET VANES  
JETS  
WALL FLOW

WALL PRESSURE  
1201 1202 1203 1408 3203  
BT #PRESSURE  
RT BOUNDARY LAYERS  
PRESSURE DISTRIBUTION  
PRESSURE VESSELS  
THICK WALLS  
WALL FLOW  
WALL TEMPERATURE  
WALL TEMPERATURE  
1408 3203 3303  
UP WALL TEMPERATURE DISTRIBUTION  
BT #SURFACE PROPERTIES  
SURFACE TEMPERATURE  
#TEMPERATURE  
RT OPERATING TEMPERATURE  
THICK WALLS  
WALL PRESSURE  
WALL TEMPERATURE DISTRIBUTION  
USE TEMPERATURE DISTRIBUTION  
WALL TEMPERATURE  
WALLOPS ISLAND  
1305  
BT #ISLANDS  
RT ATLANTIC OCEAN  
WALLS  
1106 2311 3202 3203  
UP COLD WALLS  
BULKHEADS  
NOZZLE WALLS  
POROUS WALLS  
THICK WALLS  
THIN WALLS  
WIND TUNNEL WALLS  
RT BARRIERS  
BUILDINGS  
CURTAINS  
ENCLOSURES  
FLOORS  
GATES (OPENINGS)  
HOUSINGS  
PANELS  
PARTITIONS (STRUCTURES)  
SANDWICH STRUCTURES  
SHEATHS  
#SHELLS (STRUCTURAL FORMS)  
SIDES  
STUDS (STRUCTURAL MEMBERS)  
SUBSTRUCTURES  
WALSH FUNCTION  
1411 1902  
BT #FUNCTIONS (MATHEMATICS)  
ORTHOGONAL FUNCTIONS  
RT FOURIER TRANSFORMATION  
FUNCTIONAL ANALYSIS  
MATRICES (MATHEMATICS)  
WANKEL ENGINES  
1504 2801  
BT #ENGINES  
INTERNAL COMBUSTION ENGINES  
RT AIRCRAFT ENGINES  
AUTOMOBILE ENGINES  
WAR GAMES  
0804 1902 3401  
RT DIGITAL SIMULATION  
GAME THEORY  
MATHEMATICAL MODELS  
OPERATIONS RESEARCH  
#SIMULATION  
WARFARE  
3401 3403  
NT ANTISUBMARINE WARFARE  
CHEMICAL WARFARE  
COMBAT  
GUERRILLAS  
NUCLEAR WARFARE  
RT ATTACKING (ASSAULTING)  
EVASIVE ACTIONS  
INFILTRATION  
INTERNATIONAL LAW  
ORDNANCE  
PEACETIME  
POLITICS  
STRATEGY  
VIOLENCE  
WARHEADS  
2205 3302 3401  
NT NUCLEAR WARHEADS  
BT #WEAPONS  
RT AMMUNITION  
BOMBS (ORDNANCE)  
#EXPLOSIVE DEVICES

EXPLOSIVES  
FUSES  
FUSES (ORDNANCE)  
MISSILE COMPONENTS  
#MISSILES  
NOSE CONES  
NUCLEAR WEAPONS  
PAYLOADS  
PROJECTILES  
ROCKETS  
SHAPED CHARGES  
TORPEDOES  
WARNING  
USE #HEATING  
WARNING  
0702 0705 3401  
RT ACCIDENT PREVENTION  
AUDITORY SIGNALS  
BELLS  
CIVIL DEFENSE  
COLLISION AVOIDANCE  
#DETECTION  
DETECTORS  
EARLY WARNING SYSTEMS  
FIRE PREVENTION  
HORNS  
MINE DETECTORS  
MONITORS  
#PROTECTION  
SAFETY  
SAFETY DEVICES  
WARNING DEVICES  
USE #WARNING SYSTEMS  
WARNING SIGNALS  
USE #WARNING SYSTEMS  
WARNING STAR AIRCRAFT  
USE EC-121 AIRCRAFT  
#WARNING SYSTEMS  
0506 0702 0705 0905 3401  
UP ALARMS  
COLLISION WARNING DEVICES  
WARNING DEVICES  
WARNING SIGNALS  
NT BALLISTIC MISSILE EARLY WARNING  
SYSTEM  
EARLY WARNING SYSTEMS  
MINE DETECTORS  
RT ACCIDENT PREVENTION  
AUDITORY SIGNALS  
BELLS  
CIVIL DEFENSE  
COLLISION AVOIDANCE  
#DETECTION  
DETECTORS  
#DISPLAY DEVICES  
#EXPLOSIONS  
FIRE PREVENTION  
FIRES  
GAS DETECTORS  
#HAZARDS  
HEAD-UP DISPLAYS  
HORNS  
MONITORS  
NATIONAL SEVERE STORMS PROJECT  
#PROTECTION  
PUBLIC ADDRESS SYSTEMS  
SAFETY  
SAFETY DEVICES  
SAFETY MANAGEMENT  
SANITATION  
SIRENS  
SOUND GENERATORS  
SYSTEMS  
WARPAGE  
3203  
RT BENDING  
BUCKLING  
CAMBER  
#DAMAGE  
#DEFORMATION  
DISTORTION  
#GROWTH  
HEAVING  
PLASTIC DEFORMATION  
SHRINKAGE  
STRUCTURAL STRAIN  
SURFACE DISTORTION  
THERMAL EXPANSION  
TWISTING  
WASHERS  
1504  
(USE OF A MORE SPECIFIC TERM IS

# WASHERS (CLEANERS)

RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

RT WASHERS (CLEANERS)  
WASHERS (SPACERS)  
WASHERS (CLEANERS)  
1504  
RT CLEANERS  
CONCENTRATORS  
EXTRACTION  
SEPARATORS  
WASHERS  
WASHING  
WASHERS (SPACERS)  
1504  
BT FASTENERS  
RT INSERTS  
SEPARATORS  
SPACERS  
WASHERS  
WASHING  
0602 1407  
UP SCRUBBING  
RT BATHING  
BENEFICIATION  
CLEANING  
DECONTAMINATION  
DISSOLVING  
DISTILLATION  
ELUTION  
FLUSHING  
PURIFICATION  
SCRUBBERS  
SEPARATION  
WASHERS (CLEANERS)  
WASHINGTON  
1305  
BT UNITED STATES OF AMERICA  
WASHINGTON COUNTY METEORITE  
3005  
BT CELESTIAL BODIES  
IRON METEORITES  
METEORITES  
WASHOAT (RADIOACTIVITY)  
USE FALLOUT  
WASP SOUNDING ROCKET  
3108  
UP HIGH ALTITUDE SOUNDING PROJECTILE  
WINDOW ATMOSPHERE SOUNDING  
PROJECTILE  
BT MULTISTAGE ROCKET VEHICLES  
ROCKET VEHICLES  
SOUNDING ROCKETS  
RT LOKI ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
WASPALLOY  
1501 1701 1704  
BT ALLOYS  
HEAT RESISTANT ALLOYS  
NICKEL ALLOYS  
RT CHROMIUM ALLOYS  
COBALT ALLOYS  
WROUGHT ALLOYS  
WASTE DISPOSAL  
0505 0602 2202 3404  
BT DISPOSAL  
RT AIR POLLUTION  
DILUTION  
DISSIPATION  
DRAINAGE  
EFFLUENTS  
ELIMINATION  
ENVIRONMENT POLLUTION  
ENVIRONMENTAL ENGINEERING  
EXHAUST GASES  
EXHAUST SYSTEMS  
GARBAGE  
HUMAN WASTES  
INCINERATORS  
MATERIALS HANDLING  
METABOLIC WASTES  
MINES (EXCAVATIONS)  
PIPELINES  
POLLUTION  
PONDS  
RADIOACTIVE WASTES  
SANITATION  
SEWAGE  
SPACE FLIGHT FEEDING  
STORAGE  
SUMPS  
WASTE UTILIZATION  
WASTES

WATER POLLUTION  
WASTE UTILIZATION  
0505 0602 3404  
BT UTILIZATION  
RT WASTE DISPOSAL  
WASTES  
WASTES  
0505 3104  
RT FECEES  
GARBAGE  
HUMAN WASTES  
METABOLIC WASTES  
RADIOACTIVE WASTES  
SEWAGE  
URINE  
RT AIR POLLUTION  
BENEFICIATION  
BY-PRODUCTS  
COMBUSTION PRODUCTS  
CONTAMINANTS  
DEBRIS  
EFFLUENTS  
EXHAUST GASES  
FUMES  
IMPURITIES  
LEAKAGE  
LOSSES  
POLLUTION  
RESIDUES  
SCRAP  
SLAGS  
SLUDGE  
WASTE DISPOSAL  
WASTE UTILIZATION  
WATCHES  
USE CLOCKS  
WATER  
0505 1204 1308 1804 2003  
RT COLD WATER  
GROUND WATER  
HEAVY WATER  
POLYMER  
POTABLE WATER  
SEA WATER  
VADOSE WATER  
RT BODY FLUIDS  
CAVITATION FLOW  
HUMIDITY  
HYDRATES  
HYDRAULICS  
HYDRODYNAMICS  
HYDROGEN COMPOUNDS  
HYDROLOGY  
HYDROMECHANICS  
HYDROSTATICS  
ICE  
LIFE SUPPORT SYSTEMS  
LIQUIDS  
MODERATORS  
MOISTURE  
MOISTURE CONTENT  
OXIDES  
POLLUTION  
PRECIPITATION (METEOROLOGY)  
RUNWAY CONDITIONS  
SLUSH  
STEAM  
WATER POLLUTION  
WATER PRESSURE  
WATER TREATMENT  
WATER VAPOR  
WATER BALANCE  
0404 0408 2001 2003  
BT MATERIAL BALANCE  
RT BODY FLUIDS  
EDEMA  
EQUILIBRIUM  
HOMEOSTASIS  
HYDROMETEOROLOGY  
OSMOSIS  
URINATION  
WATER CONSUMPTION  
WATER LOSS  
WATER CONSUMPTION  
0404 0408 2003  
BT CONSUMPTION  
RT IRRIGATION  
SEEPAGE  
WATER BALANCE  
WATER DEPRIVATION  
WATER INTAKES  
WATER LOSS

# WASA THESAURUS (ALPHABETICAL LISTING)

WATER CONTENT  
USE MOISTURE CONTENT  
WATER COOLED REACTORS  
2203 2204 3303  
UP PHYSICAL CONSTANTS TESTING REACTOR  
RT BOILING WATER REACTORS  
BORAX 5 REACTOR  
EXPERIMENTAL BOILING WATER REACTORS  
HALDEN BOILING WATER REACTOR  
HEAVY WATER COMPONENTS TEST  
REACTORS  
HEAVY WATER REACTORS  
LOS ALAMOS WATER BOILER REACTOR  
NRI REACTORS  
PATHFINDER NUCLEAR REACTOR  
PLUM BROOK REACTOR  
PLUTONIUM RECYCLE TEST REACTOR  
PRESSURIZED WATER REACTORS  
SENN REACTOR  
SPECTRAL SHIFT CONTROL REACTOR  
SPERT REACTORS  
SWINNING POOL REACTORS  
ZERO POWER REACTOR 2  
ZERO POWER REACTOR 3  
ZERO POWER REACTOR 6  
ZERO POWER REACTOR 7  
ZERO POWER REACTOR 9  
ZERO POWER REACTORS  
BT LIQUID COOLED REACTORS  
RT NUCLEAR REACTORS  
CHEMICAL REACTORS  
NUCLEAR ENGINE FOR ROCKET VEHICLES  
REACTORS  
WATER DEPRIVATION  
0505 0506  
BT DEPRIVATION  
RT WATER CONSUMPTION  
WATER EROSION  
2003  
UP RAIN EROSION  
BT EROSION  
RT RAIN IMPACT DAMAGE  
WATER FLOW  
1202 1204 3303  
BT FLUID FLOW  
LIQUID FLOW  
RT CANALS  
DRAINAGE  
FLOODS  
FLOW MEASUREMENT  
GROUND WATER  
HYDRAULICS  
HYDRODYNAMICS  
OPEN CHANNEL FLOW  
PIPE FLOW  
WATER PRESSURE  
WATER HAMMER  
1202 1204  
RT HYDRAULIC EQUIPMENT  
HYDRODYNAMICS  
PIPE FLOW  
PIPELINES  
RAMS (PUMPS)  
SURGES  
VALVES  
WATER INJECTION  
0702 1204 3104  
BT FLUID INJECTION  
INJECTION  
LIQUID INJECTION  
RT GAS INJECTION  
PERFORATING  
THRUST AUGMENTATION  
WATER INTAKES  
0404 0408 0505  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
RT AIR INTAKES  
INTAKE SYSTEMS  
MANIFOLDS  
NOSE INLETS  
PLENUM CHAMBERS  
SCOOPS  
SIDE INLETS  
WATER CONSUMPTION  
WATER JETS  
USE HYDRAULIC JETS  
WATER LANDING  
0203 3105  
UP SPLASH POINTS  
RT DITCHING (LANDING)

# NASA THESAURUS (ALPHABETICAL LISTING)

**HT #LANDING**  
**HT AIRCRAFT LANDING**  
 CRASH LANDING  
 GLIDE LANDINGS  
 HORIZONTAL SPACECRAFT LANDING  
 HYDROPLANING  
 PLANETARY LANDING  
 SOFT LANDING  
 SPACECRAFT LANDING  
 SPACECRAFT RECOVERY  
 SPLASHING  
 TOUCHDOWN  
**WATER LOSS**  
 0603 2003  
**BT DEHYDRATION**  
 DRYING  
 EVAPORATION  
 LOSSES  
 WATER BALANCE  
 WATER CONSUMPTION  
**WATER MANAGEMENT**  
 0505 3404  
**BT #MANAGEMENT**  
**BT CONSERVATION**  
 FLOODS  
 HYDROLOGY  
 POTABLE WATER  
 WATER POLLUTION  
 WATER RECLAMATION  
**WATER MODERATED REACTORS**  
 2203 2204  
**HT BORAX 5 REACTOR**  
 EXPERIMENTAL BOILING WATER REACTORS  
 HEAVY WATER COMPONENTS TEST  
 REACTORS  
 PLUTONIUM RECYCLE TEST REACTOR  
 SEW REACTOR  
**BT #NUCLEAR REACTORS**  
**WATER POLLUTION**  
 0411 0505  
**BT ENVIRONMENT POLLUTION**  
**#POLLUTION**  
 CONTAMINATION  
 PURITY  
 THERMAL POLLUTION  
 WASTE DISPOSAL  
 WATER  
 WATER MANAGEMENT  
**WATER PRESSURE**  
 1202 1204 1408  
**BT #PRESSURE**  
**HT HYDRAULICS**  
 HYDRODYNAMICS  
 HYDROSTATIC PRESSURE  
 HYDROSTATICS  
 INLET PRESSURE  
 PIPE FLOW  
 WATER  
 WATER FLOW  
**WATER PURIFICATION**  
 USE WATER TREATMENT  
**WATER RECLAMATION**  
 0505 0602  
**UP WATER RECOVERY**  
**BT MATERIALS RECOVERY**  
**#RECLAMATION**  
**BT CONSERVATION**  
**#POLLUTION**  
 WATER MANAGEMENT  
 WATER TREATMENT  
**WATER RECOVERY**  
 USE WATER RECLAMATION  
**WATER TAKEOFF AND LANDING AIRCRAFT**  
 0201  
**HT SEAPLANES**  
 SUNDERLAND 5 FLYING BOAT  
**HT AIRCRAFT**  
 AMPHIBIOUS AIRCRAFT  
 ANTISUBMARINE WARFARE AIRCRAFT  
**#COMMERCIAL AIRCRAFT**  
 GROUND EFFECT MACHINES  
 HOVERCRAFT GROUND EFFECT MACHINES  
 KAG-3 GROUND EFFECT MACHINE  
 LIGHT AIRCRAFT  
 MONOPLANES  
 PASSENGER AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 S-61 HELICOPTER  
 SEA LAUNCHING  
 SUBMERSIBLE AIRCRAFT  
 SUBSONIC AIRCRAFT  
**#TRANSPORT AIRCRAFT**

UTILITY AIRCRAFT  
 USE AMPHIBIOUS AIRCRAFT  
**WATER TEMPERATURE**  
 2003 2311 3303 3304 3408  
**BT #TEMPERATURE**  
**HT SURFACE TEMPERATURE**  
 TEMPERATURE DISTRIBUTION  
 THERMAL POLLUTION  
**WATER TREATMENT**  
 0505 0602 3404  
**UP WATER PURIFICATION**  
**BT ADSORPTION**  
 AERATION  
 AGITATION  
 BENTONITE  
 CHLORINATION  
 COAGULATION  
 CONTAMINANTS  
 CORROSION PREVENTION  
 DEMINERALIZING  
 DESALINIZATION  
 FILTRATION  
 FLOCCULATING  
 FLOTATION  
 ION EXCHANGING  
 MATERIAL ABSORPTION  
**#POLLUTION**  
 POTABLE WATER  
 PURIFICATION  
 SCREENING  
 SETTLING  
 SEWAGE  
 TREATMENT  
 WATER  
 WATER RECLAMATION  
**WATER TUNNELS**  
 USE HYDRAULIC TEST TUNNELS  
**WATER VAPOR**  
 1203 1204 2003  
**BT #VAPORS**  
**HT ATMOSPHERIC MOISTURE**  
 DEW  
 HUMIDITY  
 MOISTURE  
 MOISTURE CONTENT  
 STEAM  
 WATER  
**#WATER VEHICLES**  
 1204  
**HT AIRCRAFT CARRIERS**  
 BALLISTIC MISSILE SUBMARINES  
 BOATS  
 CAPTURED AIR BUOBBLE VEHICLES  
 CARGO SHIPS  
 GUIDED MISSILE SUBMARINES  
 LIFEBOATS  
 NUCLEAR POWERED SHIPS  
 SATELLITE COMMUNICATIONS SHIPS  
 SAVANNAH NUCLEAR SHIP  
 SHIPS  
 SUBMARINES  
 TANKER SHIPS  
 UNDERWATER VEHICLES  
**HT AMPHIBIOUS VEHICLES**  
 MILITARY VEHICLES  
 RESEARCH VEHICLES  
**#SURFACE VEHICLES**  
 VEHICLES  
**WATER WAVES**  
 1204 1310  
**HT CAPILLARY WAVES**  
 ELASTOHYDRODYNAMICS  
 GRAVITY WAVES  
 RIPPLES  
 SEA ROUGHNESS  
 SEA STATES  
**#SURFACE WAVES**  
 TSUNAMI WAVES  
 WAVES  
**WATERPROOFING**  
 0508 0602 1802  
**HT BARRIER LAYERS**  
 CAULKING  
**#COATINGS**  
 INSULATION  
 PROTECTIVE COATINGS  
 SEALING  
 WEATHERPROOFING  
**WATTMETERS**  
 0904 0905 1406  
**BT #MEASURING INSTRUMENTS**  
**HT ELECTRICAL MEASUREMENT**

# WAVE FRONT DEFORMATION

**WAVE ATTENUATION**  
 0710 1202 2306 2309 2312 2502  
**HT ACOUSTIC ATTENUATION**  
 RADAR ATTENUATION  
 RADIO ATTENUATION  
 SHOCK WAVE ATTENUATION  
**BT #ATTENUATION**  
**HT ATMOSPHERIC ATTENUATION**  
 ELECTROMAGNETIC ABSORPTION  
 RADAR TRANSMISSION  
 RADIO TRANSMISSION  
 SHOCK WAVE PROPAGATION  
 WAVE INCIDENCE CONTROL  
 WAVE PROPAGATION  
 WAVE SCATTERING  
**WAVE DEGRADATION**  
 1202 1203 3203  
**BT #ATTENUATION**  
**#SCATTERING**  
 SHOCK WAVE INTERACTION  
 WAVE INTERACTION  
 WAVE SCATTERING  
**WAVE DIFFRACTION**  
 0710 2306 2402  
**BT DIFFRACTION**  
**HT #ATTENUATION**  
 CROSSTALK  
 FRESNEL INTEGRALS  
 INTERFERENCE  
 TRAVELING WAVE MODULATION  
 WAVE DISPERSION  
 WAVE FRONT DEFORMATION  
 WAVE INTERACTION  
 WAVE REFLECTION  
 WAVE SCATTERING  
**WAVE DISPERSION**  
 0710 2306  
**HT #ACOUSTIC PROPERTIES**  
 ATMOSPHERIC REFRACTION  
**#ATTENUATION**  
 COHERENCE  
 COLOR  
 DEFLECTION  
 DIFFRACTION  
 DISPERSION  
**#ELASTIC WAVES**  
**#ELECTROMAGNETIC RADIATION**  
**#FADING**  
 LIGHT TRANSMISSION  
 OPTICAL PATHS  
 OPTICAL PROPERTIES  
 RADIATION DISTRIBUTION  
 RADIO WAVE REFRACTION  
**#REFRACTION**  
**#SCATTERING**  
 SOUND-SOUND INTERACTIONS  
 TRANSMISSION LOSS  
 WAVE DIFFRACTION  
 WAVE PROPAGATION  
 WAVE SCATTERING  
**WAVE DRAG**  
 0101 1203  
**HT INTERFERENCE DRAG**  
**BT DRAG**  
**#DYNAMIC CHARACTERISTICS**  
 PRESSURE DRAG  
**HT FRICTION DRAG**  
 SUPERSONIC DRAG  
**WAVE EQUATIONS**  
 0710 1202 2301 2306 2309 2312 2402  
 2502 3203  
 (NOT EQUATIONS OF MOTION)  
**HT DIRAC EQUATION**  
 EIKONAL EQUATION  
 KLEIN-GORDON EQUATION  
 LANE WAVE EQUATIONS  
 SCHRÖDINGER EQUATION  
**RT BOLTZMANN-VLASOV EQUATION**  
 FORBIDDEN BANDS  
 HELMHOLTZ EQUATIONS  
 PARTIAL DIFFERENTIAL EQUATIONS  
 QUANTUM THEORY  
 WAVE FUNCTIONS  
**WAVE EXCITATION**  
 1202 1203 2306 2402 2502 3203  
**HT ACOUSTIC EXCITATION**  
 HARMONIC EXCITATION  
**BT #EXCITATION**  
**HT STROKING TESTS**  
 WAVES  
**WAVE FRONT DEFORMATION**  
 0710 1202 1203 2306 2310 3203

# WAVE FRONT RECONSTRUCTION

BT #DEFORMATION  
RT INTERFERENCE  
WAVE DIFFRACTION  
WAVE INTERACTION  
WAVE PROPAGATION  
WAVE REFLECTION  
WAVE SCATTERING  
WAVE FRONT RECONSTRUCTION  
0710 1202 1203 2310 3203  
NT KINOPHOTO  
BT #RECONSTRUCTION  
RT DIFFRACTOMETERS  
HOLOGRAPHY  
#PHOTOGRAPHY  
WAVE FRONTS  
1202 1203 1204 2306 2310  
NT SHOCK FRONTS  
RT EIKONAL EQUATION  
FRONTS  
HUYGENS PRINCIPLE  
PHASE COHERENCE  
PHASE VELOCITY  
SHOCK DISCONTINUITY  
WAVE PROPAGATION  
WAVES  
WAVE FUNCTIONS  
0710 1202 2306 2310 2402 3203  
NT MOLECULAR ORBITALS  
PAULI EXCLUSION PRINCIPLE  
BT FORBIDDEN TRANSITIONS  
HARTREE APPROXIMATION  
PERTURBATION THEORY  
SQUARE WAVES  
TIME FUNCTIONS  
WAVE EQUATIONS  
WAVE GENERATION  
1308 2402 2403 2502  
RT #ELECTROMAGNETIC RADIATION  
FUNCTION GENERATORS  
GENERATORS  
HARMONIC GENERATIONS  
#SHOCK WAVE GENERATORS  
WAVE INTERACTION  
WAVE PROPAGATION  
WAVE INCIDENCE CONTROL  
0710 2306 2402  
RT INCIDENT RADIATION  
WAVE ATTENUATION  
WAVE PROPAGATION  
WAVE REFLECTION  
WAVE SCATTERING  
WAVE INTERACTION  
2301 2306 2309 2402 2502  
NT SHOCK WAVE INTERACTION  
RT COUPLING  
DAMPING  
ELECTROACOUSTIC WAVES  
ELECTROMAGNETIC INTERACTIONS  
INTERACTIONS  
INTERMODULATION  
#MODULATION  
ORTHOGONAL MULTIPLEXING THEORY  
PLASMA INTERACTIONS  
PROPAGATION MODES  
#SCATTERING  
SHOCK WAVE LUMINESCENCE  
SHOCK WAVE PROFILES  
SHOCK WAVE PROPAGATION  
WAVE DEGRADATION  
WAVE DIFFRACTION  
WAVE FRONT DEFORMATION  
WAVE GENERATION  
WAVE PROPAGATION  
WAVE RESISTANCE  
WAVE MOTION  
USE WAVES  
WAVE OSCILLATORS  
USE #OSCILLATORS  
WAVE PROPAGATION  
0710  
UP KIRCHHOFF-HUYGENS PRINCIPLE  
NT DIFFRACTION PROPAGATION  
GROUND WAVE PROPAGATION  
IONOSPHERIC P-SCATTER PROPAGATION  
IONOSPHERIC PROPAGATION  
LIGHT SCATTERING  
SCATTER PROPAGATION  
SHOCK WAVE PROPAGATION  
TRANSEQUATORIAL PROPAGATION  
BT #TRANSMISSION  
RT ACOUSTIC ATTENUATION  
ATMOSPHERIC ATTENUATION

#ATTENUATION  
AUTOMATIC PICTURE TRANSMISSION  
BEAM WAVEGUIDES  
COHERENCE  
#COHERENT RADIATION  
CONDUCTION  
DIFFRACTION  
DOUBLE SIDEBAND TRANSMISSION  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC WAVE TRANSMISSION  
GROUP VELOCITY  
HUYGENS PRINCIPLE  
HYDRAULIC ANALOGIES  
LANE WAVE EQUATIONS  
LIGHT TRANSMISSION  
MICROWAVE ATTENUATION  
MICROWAVE TRANSMISSION  
MULTIPATH TRANSMISSION  
NONADIABATIC THEORY  
PHASE VELOCITY  
PLASMA ACCELERATION  
PLASMA GUIDES  
PROPAGATION  
PROPAGATION MODES  
PROPAGATION VELOCITY  
PULSE DIFFRACTION  
RADAR ATTENUATION  
RADAR TRANSMISSION  
RADIO ATTENUATION  
RADIO TRANSMISSION  
#REFRACTION  
SCREEN EFFECT  
SHOCK FRONTS  
SHOCK WAVE ATTENUATION  
SHORT WAVE RADIO TRANSMISSION  
SINGLE SIDEBAND TRANSMISSION  
SOUND TRANSMISSION  
SQUARE WAVES  
STRESS WAVES  
TELEVISION TRANSMISSION  
WAVE ATTENUATION  
WAVE DISPERSION  
WAVE FRONT DEFORMATION  
WAVE FRONTS  
WAVE GENERATION  
WAVE INCIDENCE CONTROL  
WAVE INTERACTION  
WAVEFORMS  
WHITHAM RULE  
WAVE RADIATION  
USE #ELECTROMAGNETIC RADIATION  
WAVE REFLECTION  
0710 2301 2306 2310 2402  
BT REFLECTION  
RT SIGNAL REFLECTION  
WAVE DIFFRACTION  
WAVE FRONT DEFORMATION  
WAVE INCIDENCE CONTROL  
WAVE SCATTERING  
WAVE RESISTANCE  
1202 1310 3203  
RT BLAST LOADS  
EROSION  
IMPACT STRENGTH  
RESISTANCE  
STRUCTURAL STABILITY  
WAVE INTERACTION  
WAVE SCATTERING  
0710 2306 2402  
NT ACOUSTIC SCATTERING  
ATMOSPHERIC SCATTERING  
ELECTROMAGNETIC SCATTERING  
IONOSPHERIC P-SCATTER PROPAGATION  
LIGHT SCATTERING  
MICROWAVE SCATTERING  
NIE SCATTERING  
RAMAN SPECTRA  
RAYLEIGH SCATTERING  
REVERBERATION  
TROPOSPHERIC SCATTERING  
X RAY SCATTERING  
BT #SCATTERING  
RT PADDEEV EQUATIONS  
MAGNETIC DISPERSION  
SCATTERING AMPLITUDE  
SCATTEROMETERS  
SHOCK FRONTS  
WAVE ATTENUATION  
WAVE DEGRADATION  
WAVE DIFFRACTION  
WAVE DISPERSION  
WAVE FRONT DEFORMATION

# NASA THESAURUS (ALPHABETICAL LISTING)

WAVE INCIDENCE CONTROL  
WAVE REFLECTION  
WAVE SUPERHEATERS  
USE HYPERVELOCITY WIND TUNNELS  
SHOCK TUBES  
WAVEFORMS  
0710 1201 1202 2301 2306 2310 2402  
NT PULSE AMPLITUDE  
PULSE DURATION  
SAWTOOTH WAVEFORMS  
SQUARE WAVES  
RT FORN FACTORS  
TIME FUNCTIONS  
WAVE PROPAGATION  
WAVEGUIDE ANTENNAS  
0701 0710 0901  
BT ANTENNAS  
#CONDUCTORS  
RT LENS ANTENNAS  
MICROWAVE ANTENNAS  
MONOPULSE ANTENNAS  
RADANT  
SLOT ANTENNAS  
YAGI ANTENNAS  
WAVEGUIDE FILTERS  
0701 0702 0705 0710 0905  
BT #ELECTRIC FILTERS  
ELECTROMAGNETIC WAVE FILTERS  
RT MICROWAVE FILTERS  
RADAR FILTERS  
WAVEGUIDE TUNERS  
WAVEGUIDE WINDOWS  
WAVEGUIDES  
WAVEGUIDE TUNERS  
0701 0705 0710 0905  
BT TUNERS  
RT IMPEDANCE MATCHING  
MODE TRANSFORMERS  
WAVEGUIDE FILTERS  
YTTRIUM-IRON GARNET  
WAVEGUIDE WINDOWS  
0710 1202 2309  
RT IMPEDANCE MATCHING  
IRISES (MECHANICAL APERTURES)  
WAVEGUIDE FILTERS  
WINDOWS  
WAVEGUIDES  
0701 0710 0904 0905  
NT BEAM WAVEGUIDES  
PLASMA GUIDES  
BT COMMUNICATION CABLES  
#TRANSMISSION LINES  
RT ANTENNA FEEDS  
COAXIAL CABLES  
CROSSED FIELDS  
GYRATORS  
IRISES (MECHANICAL APERTURES)  
MICROWAVE SWITCHING  
PARALLEL PLATES  
PROPAGATION MODES  
RECTANGULAR GUIDES  
SMITH CHART  
WAVEGUIDE FILTERS  
WAVELENGTHS  
0710 2311  
NT DE BROGLIE WAVELENGTHS  
RT ANTINODES  
HARMONICS  
INFRARED RADIATION  
LASER MODES  
LASER OUTPUTS  
LONGITUDINAL WAVES  
MASER OUTPUTS  
MILLIMETER WAVES  
NODES (STANDING WAVES)  
SPECTRAL EMISSION  
STANDING WAVES  
SUBMILLIMETER WAVES  
WAVES  
0101 0203 0710 1202 2402  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
UP CRESTS  
WAVE MOTION  
RT BAROCLINIC WAVES  
CORRUGATING  
CYLINDRICAL WAVES  
DETONATION WAVES  
DILATATIONAL WAVES  
EIKONAL EQUATION  
#ELASTIC WAVES

# NASA THESAURUS (ALPHABETICAL LISTING)

ELECTROACOUSTIC WAVES  
 #ELECTROMAGNETIC RADIATION  
 GRAVITATIONAL WAVES  
 IONIC WAVES  
 LONGITUDINAL WAVES  
 NODES (STANDING WAVES)  
 PLANE WAVES  
 REFRACTED WAVES  
 SINE WAVES  
 SOUND WAVES  
 SPHERICAL WAVES  
 SQUARE WAVES  
 STANDING WAVES  
 STRESS WAVES  
 #SURFACE WAVES  
 SURGES  
 TRANSVERSE WAVES  
 TROPOSPHERIC WAVES  
 #VIBRATION  
 WATER WAVES  
 WAVE EXCITATION  
 WAVE FRONTS

WAXES  
 1802 1805 1808  
 NT CERESIN  
 RT ALKANES  
 #COATINGS  
 CRUDE OIL  
 FINISHES

WEAPON SYSTEM 107A-1  
 3401  
 BT #WEAPON SYSTEMS  
 WEAPON SYSTEM 107A-2  
 3401  
 BT #WEAPON SYSTEMS  
 WEAPON SYSTEM 133A  
 3401  
 BT #WEAPON SYSTEMS  
 WEAPON SYSTEM 315A  
 3401  
 BT #WEAPON SYSTEMS  
 WEAPON SYSTEM 324A  
 3401  
 BT #WEAPON SYSTEMS  
 WEAPON SYSTEM 133B  
 3401  
 BT #WEAPON SYSTEMS  
 WEAPON SYSTEM MANAGEMENT  
 3401 3406  
 RT PROJECT MANAGEMENT  
 #WEAPON SYSTEMS  
 2205 3302 3401  
 NT GROUND OPERATIONAL SUPPORT SYSTEM  
 MISSILE SYSTEMS  
 NIKE X SYSTEMS  
 SENTINEL SYSTEM  
 SHADOW WEAPON SYSTEM  
 SUCCESS PROJECT  
 TYPHON WEAPON SYSTEM  
 WEAPON SYSTEM 107A-1  
 WEAPON SYSTEM 107A-2  
 WEAPON SYSTEM 133A  
 WEAPON SYSTEM 315A  
 WEAPON SYSTEM 324A  
 WEAPON SYSTEM 133B  
 RT AIR TO SURFACE MISSILES  
 FIRE CONTROL  
 MILITARY AIRCRAFT  
 #MILITARY SPACECRAFT  
 MISSILE LAUNCHERS  
 #MISSILES  
 MOBILE MISSILE LAUNCHERS  
 NUCLEAR WEAPONS  
 ORDNANCE  
 PANAVIA MILITARY AIRCRAFT  
 ROCKETS  
 SPACE WEAPONS  
 SYSTEMS  
 #WEAPONS  
 WEAPONS DEVELOPMENT

#WEAPONS  
 3302 3401  
 NT ARTILLERY  
 FISSION WEAPONS  
 FUSION WEAPONS  
 GUNS (ORDNANCE)  
 HOWITZERS  
 MINES (ORDNANCE)  
 NUCLEAR WARHEADS  
 NUCLEAR WEAPONS  
 RIFLES  
 SPACE WEAPONS

WARHEADS  
 BT ARMUNITION  
 BALLISTIC VEHICLES  
 FIRE CONTROL  
 MILITARY TECHNOLOGY  
 #MISSILES  
 ORDNANCE  
 PROJECTILES  
 SHAPED CHARGES  
 SHRAPNEL  
 TORPEDOES  
 #WEAPON SYSTEMS  
 WEAPONS DEVELOPMENT  
 WEAPONS INDUSTRY  
 WING-FUSELAGE STORES

WEAPONS DEVELOPMENT  
 1106 3401 3404  
 BT PRODUCT DEVELOPMENT  
 RT RESEARCH AND DEVELOPMENT  
 #WEAPON SYSTEMS  
 #WEAPONS

WEAPONS INDUSTRY  
 3401 3404  
 BT DEFENSE INDUSTRY  
 #INDUSTRIES  
 RT MILITARY TECHNOLOGY  
 #WEAPONS

WEAR  
 1306 1503 1702  
 RT ABRASION  
 CHIPPING  
 CORROSION  
 #DAMAGE  
 DEPRECIATION  
 DETERIORATION  
 DURABILITY  
 EROSION  
 FAILURE  
 FLAKING  
 PRETTING CORROSION  
 #FRICTION  
 GRINDING (MATERIAL REMOVAL)  
 HARDNESS  
 REMOVAL  
 SCORING  
 SLIDING FRICTION  
 SPALLING  
 SURFACE FINISHING  
 SURFACES  
 SYSTEM FAILURES  
 WEAR TESTS

WEAR INHIBITORS  
 1503 1702  
 BT INHIBITORS  
 RT RETARDANTS

WEAR TESTS  
 1108 1503 1504 1505  
 RT CUMULATIVE DAMAGE  
 DESTRUCTIVE TESTS  
 EROSION  
 PRETTING  
 #FRICTION  
 HARDNESS TESTS  
 MATERIALS TESTS  
 PATCH TESTS  
 QUALITY CONTROL  
 SPALLING  
 STATIC TESTS  
 TESTS  
 WEAR

WEATHER  
 2001 2002 2003  
 UP WEATHER CONDITIONS  
 ZERO-ZERO WEATHER  
 NT COLD WEATHER  
 HOT WEATHER  
 RT AIRCRAFT ACCIDENTS  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY  
 ANNUAL VARIATIONS  
 ATMOSPHERIC PRESSURE  
 ATMOSPHERIC TEMPERATURE  
 CLIMATE  
 CLIMATOLOGY  
 CLOUDS (METEOROLOGY)  
 FLIGHT HAZARDS  
 FLIGHT PLANS  
 LONG TERM EFFECTS  
 METEOROLOGICAL PARAMETERS  
 #METEOROLOGY  
 #NAVIGATION AIDS  
 PRECIPITATION (METEOROLOGY)

## WEATHERPROOFING

RUNWAY CONDITIONS  
 SEASONS  
 SOLAR COMPASSES  
 #WIND (METEOROLOGY)

WEATHER CHARTS  
 USE METEOROLOGICAL CHARTS  
 WEATHER CONDITIONS  
 USE WEATHER  
 WEATHER CONTROL  
 USE WEATHER MODIFICATION  
 WEATHER DATA RECORDERS  
 0802 2001 2003 3405  
 BT #MEASURING INSTRUMENTS  
 METEOROLOGICAL INSTRUMENTS  
 #RECORDING INSTRUMENTS  
 RT TELEMETRY  
 WEATHER FORECASTING  
 1301 2001 2003  
 NT LONG RANGE WEATHER FORECASTING  
 NUMERICAL WEATHER FORECASTING  
 STATISTICAL WEATHER FORECASTING  
 BT #FORECASTING  
 #METEOROLOGY  
 RT AIR MASSES  
 ATMOSPHERIC MODELS  
 CLOUD COVER  
 FLIGHT CONDITIONS  
 FLOOD PREDICTIONS  
 HUMIDITY  
 METEOROLOGICAL BALLOONS  
 METEOROLOGICAL FLIGHT  
 METEOROLOGICAL RADAR  
 METEOROLOGICAL SATELLITES  
 METEOROLOGICAL SERVICES  
 NEPHANALYSIS  
 PRECIPITATION (METEOROLOGY)  
 #STORMS  
 STORMS (METEOROLOGY)  
 SYNOPTIC METEOROLOGY  
 WEATHER STATIONS  
 #WIND (METEOROLOGY)

WEATHER FRONTS  
 USE FRONTS (METEOROLOGY)  
 WEATHER MAPS  
 USE METEOROLOGICAL CHARTS  
 WEATHER MODIFICATION  
 1301 1302 2001 2003 2311  
 UP WEATHER CONTROL  
 NT CLOUD SEEDING  
 RT ARTIFICIAL CLOUDS  
 CLOUD PHYSICS  
 ENVIRONMENTAL CONTROL

WEATHER RADAR  
 USE METEOROLOGICAL RADAR  
 WEATHER RECONNAISSANCE AIRCRAFT  
 0201  
 BT OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 RT METEOROLOGICAL INSTRUMENTS  
 OBSERVATION AIRCRAFT  
 RB-50 AIRCRAFT

WEATHER STATIONS  
 1101 1106 2001 2003  
 UP METEOROLOGICAL STATIONS  
 BT #STATIONS  
 RT GROUND STATIONS  
 INSTRUMENT PACKAGES  
 METEOROLOGICAL INSTRUMENTS  
 METEOROLOGICAL SATELLITES  
 METEOROLOGICAL SERVICES  
 WEATHER FORECASTING

WEATHERING  
 1306 1503 1702 2001 2003  
 RT CORROSION  
 CORROSION TESTS  
 CURING  
 #DAMAGE  
 DEGRADATION  
 DETERIORATION  
 #EARTH ATMOSPHERE  
 EROSION  
 EXPOSURE  
 #MECHANICAL PROPERTIES  
 RUSTING

WEATHERPROOFING  
 0602 1802 2001  
 RT #COATINGS  
 COLD WEATHER  
 CORROSION PREVENTION  
 PACKAGING  
 PRESERVING  
 WATERPROOFING

## WEAVING

## WEAVING

1504 1811  
RT FABRICS  
SEWING

WEBBING  
2802 2805  
RT FABRICS  
MESH  
WEBS  
WEBS (SHEETS)

WEBER-FECHNER LAW  
0404 0408  
BT #LAWS

WEBER TEST  
1307 2308  
BT PHYSIOLOGICAL TESTS  
RT AUDITORY PERCEPTION  
BINAURAL HEARING

## WEBS

2802 2809  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #MEMBRANES  
MESH  
WEBBING  
WEBS (SHEETS)  
WEBS (SUPPORTS)

WEBS (MEMBRANES)  
USE #MEMBRANES

WEBS (SHEETS)  
1504  
(EXCLUDES POLYMERIC FILMS AND  
STRUCTURAL REINFORCEMENTS)

RT DIAPHRAGMS (MECHANICS)  
FABRICS  
FILMS  
#MEMBRANES  
PAPERS  
ROVINGS  
SHEETS  
WEBBING  
WEBS  
WEBS (SUPPORTS)

## WEBS (SUPPORTS)

1504  
NT GIRDER WEBS  
RT DIAPHRAGMS (MECHANICS)  
MEMBRANE STRUCTURES  
#MEMBRANES  
RIBS (SUPPORTS)  
SKIN (STRUCTURAL MEMBER)  
STIFFENING  
WEBS  
WEBS (SHEETS)

## WEDGE FLOW

0101 0102 1202 1203  
BT #FLUID FLOW  
RT BLASIUS FLOW  
CONICAL FLOW  
PALKNER-SKAN EQUATION  
FLOW GEOMETRY  
LAMINAR FLOW  
SHOCK WAVES  
SUPERSONIC FLOW  
THREE DIMENSIONAL FLOW  
TWO DIMENSIONAL FLOW  
VISCOUS FLOW

## WEDGES

0101 0102 3203  
RT AERODYNAMIC CONFIGURATIONS  
#AIRFOIL PROFILES  
#AIRFOILS

## WEIBULL DENSITY FUNCTIONS

1505 1905  
BT #FUNCTIONS (MATHEMATICS)  
PROBABILITY DENSITY FUNCTIONS  
#STATISTICAL ANALYSIS  
RT EXPONENTIAL FUNCTIONS  
FATIGUE TESTS  
SAMPLING

## WEIERSTRASS FUNCTIONS

1902  
BT #ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
RT ELLIPTIC FUNCTIONS  
JACOBI INTEGRAL

## WEIGHT

2311 3408  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)

RT #COEFFICIENTS  
PAYLOADS  
WEIGHT (MASS)  
0101 0201 1309 3009  
UP WEIGHT FACTORS  
NT BODY WEIGHT  
ORGAN WEIGHT  
STRUCTURAL WEIGHT  
RT FORCE  
GRAVITATION  
#LOADS (FORCES)  
LOW MOLECULAR WEIGHTS  
MASCONS  
#MASS  
MOLECULAR WEIGHT  
PAYLOADS  
#PRESSURE  
VOLUME  
WEIGHT

## WEIGHT ANALYSIS

0601 1309 2308 3203  
RT ANALYZING  
NEW MOONS PROJECT  
PREFLIGHT ANALYSIS  
STRUCTURAL WEIGHT  
SYSTEMS ANALYSIS

## WEIGHT FACTORS

USE WEIGHT (MASS)  
WEIGHT INDICATORS  
1108 1110 1406 3203  
UP WIND TUNNEL BALANCES  
NT MICROBALANCES  
STRAIN GAGE BALANCES  
THERMOBALANCES  
BT INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
RT BALANCE  
#MECHANICAL MEASUREMENT  
PRESSURE GAGES  
PRESSURE MEASUREMENTS  
SCALE  
STRAIN GAGES  
TENSOMETERS  
WEIGHT MEASUREMENT

WEIGHT MEASUREMENT  
1406  
UP MICROWEIGHING  
RT DENSITY (MASS/VOLUME)  
HYDROMETERS  
MEASUREMENT  
WEIGHT INDICATORS

## WEIGHTING FUNCTIONS

1902 1905  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
MEASURE AND INTEGRATION  
REAL VARIABLES  
RT STATISTICAL MECHANICS

## WEIGHTLESS FLUIDS

1202 1309 2308  
RT FLUIDS  
VISCOUS FLUIDS

## WEIGHTLESSNESS

0401 0408 0502 0506 3009 3408  
UP ZERO GRAVITY  
RT AEROSPACE MEDICINE  
ARTIFICIAL GRAVITY  
ASTRONAUT PERFORMANCE  
ASTRONAUTICS  
BLACKOUT PREVENTION  
BODY WEIGHT  
CONTAINERLESS MELTS  
DISORIENTATION

#ENVIRONMENTS  
EXTRAVEHICULAR ACTIVITY  
FLIGHT STRESS (BIOLOGY)  
FREE FALL  
GRAVITATION  
GRAVITATIONAL EFFECTS  
INTRAVEHICULAR ACTIVITY  
LIPE SUPPORT SYSTEMS  
LOW WEIGHT  
PARABOLIC FLIGHT  
SPACE FLIGHT STRESS  
SPACECRAFT ENVIRONMENTS  
SUBORBITAL FLIGHT

## WEIGHTLESSNESS SIMULATION

0401 0502 1107 1108 1309 3104  
BT ENVIRONMENT SIMULATION  
#SIMULATION  
SPACE ENVIRONMENT SIMULATION

## NASA THESAURUS (ALPHABETICAL LISTING)

RT FLIGHT SIMULATION  
PARABOLIC FLIGHT  
SUBMERGING

## WEIGHTS (COEFFICIENTS)

USE #COEFFICIENTS

## WELD STRENGTH

1507 3203

BT #MECHANICAL PROPERTIES

RT PATCH TESTS

WELD TESTS

WELDABILITY

WELDED JOINTS

## WELD TESTS

1505 1507

RT FATIGUE TESTS

TESTS

WELD STRENGTH

WELDED JOINTS

## WELDABILITY

1507

RT BRITTLENESS

DUCTILITY

WELD STRENGTH

## WELDED JOINTS

1507 3203

NT SPOT WELDS

BT #JOINTS (JUNCTIONS)

METAL JOINTS

RT BEADS

BUTT JOINTS

LAP JOINTS

RIVETED JOINTS

WELD STRENGTH

WELD TESTS

## #WELDING

WELDED STRUCTURES

1507 3203

RT RIGID STRUCTURES

STRUCTURES

## #WELDING

1507 3407

NT ARC WELDING

BRAZING

DIFFUSION WELDING

ELECTRIC WELDING

ELECTRON BEAM WELDING

ELECTROSLAG WELDING

EXPLOSIVE WELDING

FLASH WELDING

FUSION WELDING

GAS TUNGSTEN ARC WELDING

GAS WELDING

LOW TEMPERATURE BRAZING

PLASMA ARC WELDING

PRESSURE WELDING

ULTRASONIC SOLDERING

ULTRASONIC WELDING

RT BACKUPS

## #BONDING

CONSTRUCTION

PILLETS

FLAME PLATING

FLOXES

FUSIBILITY

JOINING

METAL BONDING

METAL-METAL BONDING

SEALING

SOLDERING

TORCHES

WELDED JOINTS

WELDING MACHINES

## WELDING MACHINES

1504 1507

RT ELECTRIC EQUIPMENT

ELECTRIC WELDING

MACHINERY

TORCHES

## #WELDING

## WELLS

1305 3404

RT DRILLING

GROUND WATER

STRATIGRAPHY

WENTZEL-KRAMER-BRILLOUIN METHOD

1902 2306 2308 2402

UP WKB APPROXIMATION

RT DE BROGLIE WAVELENGTHS

PERTURBATION THEORY

PLANCKS CONSTANT

SCHROEDINGER EQUATION



# NASA THESAURUS (ALPHABETICAL LISTING)

WESER AIRCRAFT  
0201 0206  
NT WF S-64 HELICOPTER  
RT AIRCRAFT  
WESER WF S-64 HELICOPTER  
USE WF S-64 HELICOPTER  
WEST FORD PROJECT  
0707 0708 0709 3409  
BT #PROGRAMS  
PROJECTS  
WEST GERMANY  
USE GERMANY  
WEST INDIES  
1305  
BT #ISLANDS  
RT ATLANTIC OCEAN  
WEST VIRGINIA  
1305  
BT UNITED STATES OF AMERICA  
WESTLAND AIRCRAFT  
0201 0205 0206  
NT P-531 HELICOPTER  
WESTLAND WHIRLWIND HELICOPTER  
RT AIRCRAFT  
WESTLAND GROUND EFFECT MACHINES  
WESTLAND GROUND EFFECT MACHINES  
0205  
UP SR-N2 GROUND EFFECT MACHINE  
SR-N3 GROUND EFFECT MACHINE  
SR-N5 GROUND EFFECT MACHINE  
WESTLAND SR-N2 GROUND EFFECT  
MACHINE  
WESTLAND SR-N2 HOVERCRAFT  
WESTLAND SR-N3 GROUND EFFECT  
MACHINE  
WESTLAND SR-N3 HOVERCRAFT  
WESTLAND SR-N5 GROUND EFFECT  
MACHINE  
BT GROUND EFFECT MACHINES  
RT WESTLAND AIRCRAFT  
WESTLAND HK-10 HELICOPTER  
USE WESTLAND WHIRLWIND HELICOPTER  
WESTLAND P-531 HELICOPTER  
USE P-531 HELICOPTER  
WESTLAND SR-N2 GROUND EFFECT MACHINE  
USE WESTLAND GROUND EFFECT MACHINES  
WESTLAND SR-N2 HOVERCRAFT  
USE WESTLAND GROUND EFFECT MACHINES  
WESTLAND SR-N3 GROUND EFFECT MACHINE  
USE WESTLAND GROUND EFFECT MACHINES  
WESTLAND SR-N3 HOVERCRAFT  
USE WESTLAND GROUND EFFECT MACHINES  
WESTLAND SR-N5 GROUND EFFECT MACHINE  
USE WESTLAND GROUND EFFECT MACHINES  
WESTLAND WHIRLWIND HELICOPTER  
0206  
UP WESTLAND HK-10 HELICOPTER  
WHIRLWIND HK-10 HELICOPTER  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
UTILITY AIRCRAFT  
#V/STOL AIRCRAFT  
WESTLAND AIRCRAFT  
WET CELLS  
0302 0604 0904  
BT ELECTRIC BATTERIES  
#ELECTROCHEMICAL CELLS  
RT ELECTRIC CELLS  
ELECTROLYTES  
FUEL CELLS  
PRIMARY BATTERIES  
WETNESS  
USE MOISTURE CONTENT  
WETTABILITY  
0603 1202 3408  
RT ADHESION  
ADHESION TESTS  
FORMATION  
HYGROSCOPICITY  
PERMEABILITY  
POROSITY  
#SURFACE PROPERTIES  
WETTING  
WETTING  
0602 1202 3407  
BT #COOLING  
DIPPING  
FOAMING  
INTERFACIAL TENSION  
SATURATION  
SOAKING  
SOAPS

SPRAYING  
SPRINKLING  
SUBMERGING  
WETTABILITY  
WP S-64 HELICOPTER  
0206  
UP WESER WF S-64 HELICOPTER  
BT HELICOPTERS  
ROTARY WING AIRCRAFT  
#V/STOL AIRCRAFT  
WESER AIRCRAFT  
WHALES  
0402  
BT #ANIMALS  
MAMMALS  
VERTEBRATES  
WHEATSTONE BRIDGES  
0902 0905 1406  
BT #CIRCUITS  
ELECTRIC BRIDGES  
WIRE BRIDGE CIRCUITS  
RT #MEASURING INSTRUMENTS  
OHMMETERS  
WHEEL BRAKES  
0203 0208 2202  
BT #BRAKES (FOR ARRESTING MOTION)  
RT AIRCRAFT BRAKES  
AIRCRAFT SAFETY  
ANTISKID DEVICES  
CONTROLLABILITY  
#FRICTION  
HYDRAULIC EQUIPMENT  
LANDING GEAR  
TIRES  
VEHICLE WHEELS  
#WHEELS  
1504  
NT FLYWHEELS  
NOSE WHEELS  
REACTION WHEELS  
TURBINE WHEELS  
VEHICLE WHEELS  
RT #BEARINGS  
#BRAKES (FOR ARRESTING MOTION)  
GEARS  
LANDING GEAR  
PULLEYS  
ROLLERS  
ROTORS  
SHAFTS (MACHINE ELEMENTS)  
SPOKES  
TIRES  
WHIP ANTENNAS  
0701 0901  
BT ANTENNAS  
MONOPOLE ANTENNAS  
RT RADIO ANTENNAS  
WHIPLASH INJURIES  
0405 0408  
BT #INJURIES  
RT BACK INJURIES  
CRASH INJURIES  
WHIRL  
USE ROTATION  
WHIRL INSTABILITY  
USE ROTARY STABILITY  
WHIRLING  
USE ROTATION  
WHIRLING TESTS  
USE SPIN TESTS  
WHIRLWIND HK-10 HELICOPTER  
USE WESTLAND WHIRLWIND HELICOPTER  
WHIRLWIND PROJECT  
0204 3401  
BT #PROGRAMS  
PROJECTS  
WHISKER COMPOSITES  
1704  
UP METAL WHISKER REINFORCEMENT  
BT #COMPOSITE MATERIALS  
EUTECTIC ALLOYS  
RT METAL MATRIX COMPOSITES  
REINFORCING FIBERS  
WHISKERS (SINGLE CRYSTALS)  
WHISKERS (SINGLE CRYSTALS)  
0906 1701 1704 2601 2602  
BT #CRYSTALS  
SINGLE CRYSTALS  
RT DENDRITIC CRYSTALS  
#FIBERS  
FILAMENTS  
WHISKER COMPOSITES

## WIDMANSTATTEN STRUCTURE

WHISTLER RECORDERS  
0710 1302 2304 2402  
BT #COMMUNICATION EQUIPMENT  
#RADIO EQUIPMENT  
RADIO RECEIVERS  
#RECORDING INSTRUMENTS  
RT SONOGRAMS  
WHISTLERS  
0710 1302 2304 2402  
BT #ATMOSPHERIC RADIATION  
ATMOSPHERICS  
BLACKOUT (PROPAGATION)  
#ELECTROMAGNETIC INTERFERENCE  
ELECTROMAGNETIC NOISE  
IONOSPHERIC NOISE  
RADIO FREQUENCY INTERFERENCE  
RT DAWN CHORUS  
ELECTROMAGNETIC FIELDS  
LIGHTNING  
MICROWAVES  
RADIO SIGNALS  
SONOGRAMS  
WHITE BLOOD CELLS  
0404 0406  
BT BLOOD  
#BODY FLUIDS  
RT LEUKOCYTES  
WHITE DWARF STARS  
3001 3009  
BT #CELESTIAL BODIES  
DWARF STARS  
HOT STARS  
STARS  
RT SUBDWARF STARS  
WHITE LANCE MISSILE  
3101 3401  
BT #MISSILES  
RT LIQUID PROPELLANT ROCKET ENGINES  
WHITE NOISE  
1411 2301 2306 2402  
UP SPECTRAL NOISE  
NT THERMAL NOISE  
BT #ELECTROMAGNETIC INTERFERENCE  
ELECTROMAGNETIC NOISE  
RT JAMMING  
NOISE  
NOISE (SOUND)  
NOISE SPECTRA  
RADIO FREQUENCY INTERFERENCE  
RANDOM NOISE  
SIGNAL TO NOISE RATIOS  
SPECTRAL BANDS  
WHITEOUT  
0506 0605 2003 2310  
RT VISIBILITY  
WHITHAM RULE  
0710 3201 3203 3302  
BT #RULES  
RT SHOCK WAVES  
WAVE PROPAGATION  
WHITTAKER FUNCTIONS  
1902  
BT #ANALYSIS (MATHEMATICS)  
#FUNCTIONS (MATHEMATICS)  
REAL VARIABLES  
RT DIFFERENTIAL EQUATIONS  
WHITWORTH GLOSTER AW-650 AIRCRAFT  
USE AW 650 AIRCRAFT  
WICKS  
1504  
RT POSES (ORDNANCE)  
WIDE ANGLE LENSES  
1407 1412 2306 2310  
BT LENSES  
#OPTICAL EQUIPMENT  
RT ALL SKY PHOTOGRAPHY  
CAMERAS  
PANORAMIC CAMERAS  
WIDEBAND  
USE BROADBAND  
WIDEBAND COMMUNICATION  
0702 0710  
BT #TELECOMMUNICATION  
RT BROADBAND AMPLIFIERS  
POINT TO POINT COMMUNICATIONS  
TROPOSPHERIC SCATTERING  
WIDMANSTATTEN STRUCTURE  
1701 1704 2601  
BT CRYSTAL STRUCTURE  
MICROSTRUCTURE  
RT IRON METEORITES  
METALLOGRAPHY

WIDTH  
METEORITIC MICROSTRUCTURES  
PATTERNS  
WIDTH  
3408  
BT #DIMENSIONS  
RT BANDWIDTH  
SPAN  
WIENER FILTERING  
0705 0710 1905 2402  
RT #OPTIMIZATION  
#STATISTICAL ANALYSIS  
WIENER HOPF EQUATIONS  
0703 1202 1905 2402  
BT #ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
INTEGRAL EQUATIONS  
WIGHTMAN THEORY  
USE FIELD THEORY (PHYSICS)  
QUANTUM THEORY  
RELATIVISTIC THEORY  
WIGNER COEFFICIENT  
1902 2401 2403  
BT #COEFFICIENTS  
RT ANGULAR MOMENTUM  
MECHANICS (PHYSICS)  
WINCHES  
1504  
RT CRANES  
ELEVATORS (LIFTS)  
LIFTS  
PULLEYS  
#WIND (METEOROLOGY)  
0101 0201 1110 1203 1308 2003 3009  
UP WINDWARD  
NT CIRCUMPOLAR WESTERLIES  
GEOSTROPHIC WIND  
GROUND WIND  
GUSTS  
JET STREAMS (METEOROLOGY)  
MONSOONS  
SQUALLS  
RT WINDS ALOFT  
AEOLIAN TONES  
AEROLOGY  
AIR CURRENTS  
AIR POLLUTION  
ANEMOMETERS  
ATMOSPHERIC CIRCULATION  
BAROTROPIC FLOW  
BARRIERS  
BLOWING  
CLIMATOLOGY  
CYCLONES  
GRAVITY WAVES  
HOT-FILM ANEMOMETERS  
MERIDIONAL FLOW  
#METEOROLOGY  
RIPPLES  
#STORMS  
STORMS (METEOROLOGY)  
THUNDERSTORMS  
TORNADOES  
VERTICAL AIR CURRENTS  
WEATHER  
WEATHER FORECASTING  
WIND DIRECTION  
WIND EFFECTS  
WIND PRESSURE  
WIND PROFILES  
WIND VELOCITY  
WIND CIRCULATION  
USE ATMOSPHERIC CIRCULATION  
WIND DIRECTION  
1203 1301 1302 2003  
RT ATMOSPHERIC CIRCULATION  
GROUND WIND  
MERIDIONAL FLOW  
SMOKE TRAILS  
UPSTREAM  
#WIND (METEOROLOGY)  
WIND MEASUREMENT  
WIND PROFILES  
WIND SHEAR  
WIND VANES  
WIND VARIATIONS  
WIND VELOCITY  
WIND EFFECTS  
0101 0102 1301 1302 2003  
RT EFFECTS  
EROSION  
GROUND WIND  
PRESSURE EFFECTS  
SEA ROUGHNESS  
SEA STATES  
#TURBULENCE  
#WIND (METEOROLOGY)  
WIND PRESSURE  
WIND VELOCITY  
WIND MEASUREMENT  
1301 1302 1408 2003  
BT WIND VELOCITY MEASUREMENT  
BT #MECHANICAL MEASUREMENT  
RT AERODYNAMICS  
ANEMOMETERS  
HOT-FILM ANEMOMETERS  
MEASUREMENT  
METEOROLOGICAL PARAMETERS  
#METEOROLOGY  
RAWINSONDES  
SMOKE TRAILS  
WIND DIRECTION  
WIND PROFILES  
WIND VANES  
WIND VELOCITY  
WIND PRESSURE  
1203 1301 1302 1408 2003  
BT #PRESSURE  
RT DYNAMIC LOADS  
GROUND WIND  
GUST LOADS  
#LOADS (FORCES)  
#WIND (METEOROLOGY)  
WIND EFFECTS  
WIND SHEAR  
WIND VELOCITY  
WIND PROFILES  
1203 1301 1302 2003  
RT ATMOSPHERIC CIRCULATION  
GROUND WIND  
PROFILES  
RADIAL DISTRIBUTION  
SMOKE TRAILS  
VERTICAL DISTRIBUTION  
#WIND (METEOROLOGY)  
WIND DIRECTION  
WIND MEASUREMENT  
WIND VELOCITY  
WIND SHEAR  
1203 1301 1302 2003  
UP DUNGEYS WIND SHEAR MECHANISM  
RT BAROTROPIC FLOW  
CLEAR AIR TURBULENCE  
GEOSTROPHIC WIND  
GROUND WIND  
WIND DIRECTION  
WIND PRESSURE  
WIND TUNNEL APPARATUS  
1106 1108 1110 1203  
UP WIND TUNNEL BALANCES  
NT WIND TUNNEL DRIVES  
WIND TUNNEL NOZZLES  
RT EQUIPMENT  
SUPERSONIC TEST APPARATUS  
WIND TUNNELS  
WIND TUNNEL BALANCES  
USE WEIGHT INDICATORS  
WIND TUNNEL APPARATUS  
WIND TUNNEL CALIBRATION  
1108 1110 1406  
BT CALIBRATING  
RT #MEASURING INSTRUMENTS  
PRESSURE MEASUREMENTS  
SCALING LAWS  
TEMPERATURE MEASUREMENT  
WIND VELOCITY MEASUREMENT  
WIND TUNNEL DRIVES  
1110 1202 1203 2501  
BT WIND TUNNEL APPARATUS  
RT DRIVES  
FANS  
#MECHANICAL DRIVES  
#PLASMA GENERATORS  
PRESSURE CHAMBERS  
VACUUM CHAMBERS  
WIND TUNNEL MODELS  
1107 1108 1110 3404  
BT #MODELS  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT MODELS  
DYNAMIC MODELS  
FLOW VISUALIZATION  
MISSILE SIMULATORS  
PYLON MOUNTING  
SCALE MODELS  
SEMISPAN MODELS  
SHADOWGRAPH PHOTOGRAPHY  
TEST EQUIPMENT  
WIND TUNNEL STABILITY TESTS  
WIND TUNNELS  
WIND TUNNEL NOZZLES  
1110 1202 1203 1504  
BT WIND TUNNEL APPARATUS  
RT CONICAL NOZZLES  
CONVERGENT-DIVERGENT NOZZLES  
DIVERGENT NOZZLES  
HYPERSONIC NOZZLES  
NOZZLES  
SUPERSONIC NOZZLES  
TRANSONIC NOZZLES  
WIND TUNNELS  
WIND TUNNEL STABILITY TESTS  
0101 1108 1110 3203  
BT STABILITY TESTS  
RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
MISSILE TESTS  
SPACECRAFT STABILITY  
WIND TUNNEL MODELS  
WIND TUNNELS  
WING FLOW METHOD TESTS  
WIND TUNNEL WALLS  
1108 1110 3203  
BT WALLS  
RT PRESSURE VESSELS  
REINFORCED SHELLS  
WIND TUNNELS  
WIND TUNNELS  
1110  
NT BLOWDOWN WIND TUNNELS  
CASCADE WIND TUNNELS  
COMBUSTION WIND TUNNELS  
HOTSHOT WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
LOW DENSITY WIND TUNNELS  
LOW SPEED WIND TUNNELS  
PLASMA JET WIND TUNNELS  
RECTANGULAR WIND TUNNELS  
SHOCK TUNNELS  
SLOTTED WIND TUNNELS  
SUBSONIC WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
TRANSONIC WIND TUNNELS  
BT #TEST FACILITIES  
RT AERODYNAMICS  
EXHAUST FLOW SIMULATION  
FLIGHT SIMULATORS  
GAS GUNS  
GAS STREAMS  
HYPERSONIC FLOW  
SUPERSONIC FLOW  
TEST CHAMBERS  
TEST EQUIPMENT  
TRANSONIC FLOW  
TUNNELS  
WIND TUNNEL APPARATUS  
WIND TUNNEL MODELS  
WIND TUNNEL NOZZLES  
WIND TUNNEL STABILITY TESTS  
WIND TUNNEL WALLS  
WIND VANES  
0104 1203 1504 2002 2003  
BT #DISPLAY DEVICES  
FLOW DIRECTION INDICATORS  
INDICATING INSTRUMENTS  
#MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
#VANES  
RT ANEMOMETERS  
HOT-FILM ANEMOMETERS  
WIND DIRECTION  
WIND MEASUREMENT  
WIND VARIATIONS  
1203 1301 1302 2003  
BT #VARIATIONS  
RT ANNUAL VARIATIONS  
ATMOSPHERIC TURBULENCE  
BLATON FORMULA  
DIURNAL VARIATIONS  
SEASONS  
WIND DIRECTION  
WIND VELOCITY  
WIND VELOCITY  
1203 1301 1302 2003  
BT #RATES (PER TIME)  
VELOCITY  
RT AIRSPEED

# NASA THESAURUS (ALPHABETICAL LISTING)

**ANEMOMETERS**  
 FLOW MEASUREMENT  
 GROUND WIND  
 HOT-FILM ANEMOMETERS  
 SEA ROUGHNESS  
 #WIND (METEOROLOGY)  
 WIND DIRECTION  
 WIND EFFECTS  
 WIND MEASUREMENT  
 WIND PRESSURE  
 WIND PROFILES  
 WIND VARIATIONS  
**WIND VELOCITY MEASUREMENT**  
 1203 1301 1302 1406 2002 2003  
 BT #MECHANICAL MEASUREMENT  
 VELOCITY MEASUREMENT  
 WIND MEASUREMENT  
 RT ANEMOMETERS  
 HOT-FILM ANEMOMETERS  
 WIND TUNNEL CALIBRATION  
**WINDING**  
 1504 1507  
 NT FILAMENT WINDING  
 HELICAL WINDINGS  
 WIRE WINDING  
 RT COLD WORKING  
 LEVELING  
 #METAL WORKING  
 SPINDLES  
 SPIRAL WRAPPING  
 STRETCHING  
 TWISTING  
**WINDMILLING**  
 USE AUTOROTATION  
**WINDOW ATMOSPHERE SOUNDING PROJECTILE**  
 USE WASP SOUNDING ROCKET  
**WINDOWS**  
 0202 0701 0705 0901 2402  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT PORTS (OPENINGS)  
 WAVEGUIDE WINDOWS  
 WINDOWS (APERTURES)  
 WINDOWS (INTERVALS)  
**WINDOWS (APERTURES)**  
 0202  
 (EXCLUDES INTERVALS IN TIME,  
 FREQUENCY, ENERGY ETC)  
 RT APERTURES  
 BARRIERS  
 CURTAINS  
 DOORS  
 DUCTS  
 #OPENINGS  
 PORTS (OPENINGS)  
 #SEPARATORS  
 #SHIELDING  
 VENTS  
 WINDOWS  
 WINDSHIELDS  
**WINDOWS (INTERVALS)**  
 0705  
 (EXCLUDES INTERVALS IN SPACE CONTINUUM)  
 NT LAUNCH WINDOWS  
 RT BANDWIDTH  
 BURNING TIME  
 COUNTDOWN  
 ENERGY BANDS  
 FLIGHT TIME  
 TESTING TIME  
 TIME MEASUREMENT  
 WINDOWS  
**WINDS ALOFT**  
 0101 0201 1203 1302 2003  
 NT GEOSTROPHIC WIND  
 JET STREAMS (METEOROLOGY)  
 BT #WIND (METEOROLOGY)  
 RT CIRCUMPOLAR WESTERLIES  
 VERTICAL AIR CURRENTS  
**WINDSCREENS**  
 USE WINDSHIELDS  
**WINDSHIELDS**  
 0202 0203  
 UP WINDSCREENS  
 RT AIRCRAFT COMPARTMENTS  
 CANOPIES  
 COCKPITS  
 ENVIRONMENTAL CONTROL  
 LOCOMOTIVES  
 #SHIELDING  
 WINDOWS (APERTURES)

**WINDWARD**  
 USE UPSTREAM  
 #WIND (METEOROLOGY)  
**WINES**  
 0505  
 BT BEVERAGES  
 #POTABLE LIQUIDS  
**WING CAMBER**  
 0101 0102 0104 1203  
 BT CAMBER  
 RT CAMBERED WINGS  
 CONICAL CAMBER  
 WING PANELS  
 WING PROFILES  
**WING FLAPS**  
 0102 0104 0202  
 UP JET AUGMENTED WING FLAPS  
 NT LEADING EDGE SLATS  
 TRAILING-EDGE FLAPS  
 BT AERODYNAMIC BRAKES  
 AIRCRAFT BRAKES  
 #AIRFOILS  
 #BRAKES (FOR ARRESTING MOTION)  
 #CONTROL SURFACES  
 #DRAG DEVICES  
 FLAPS (CONTROL SURFACES)  
 RT JET FLAPS  
 SPLIT FLAPS  
**WING FLOW METHOD TESTS**  
 0101 0102 0104 1108 1202 1203  
 RT FLIGHT TESTS  
 #FLUID FLOW  
 #GROUND TESTS  
 METHODOLOGY  
 TESTS  
 TRANSONIC WIND TUNNELS  
 WIND TUNNEL STABILITY TESTS  
**WING-FUSELAGE STORES**  
 0101 0102 0103  
 RT EXTERNAL STORES  
 FUSELAGES  
 NACELLES  
 PODS (EXTERNAL STORES)  
 PROTUBERANCES  
 STORAGE  
 STORAGE TANKS  
 #TANKS (CONTAINERS)  
 #WEAPONS  
 WING TANKS  
**WING LOADING**  
 0101 0102 0104 3203  
 BT #AERODYNAMIC FORCES  
 AERODYNAMIC LOADS  
 DYNAMIC LOADS  
 #LOADS (FORCES)  
 RT AEROELASTICITY  
 EDGE LOADING  
 FORCE DISTRIBUTION  
 GUST LOADS  
 STATIC LOADS  
 SWEEP EFFECT  
 WING SPAN  
**WING OSCILLATIONS**  
 0101 0104  
 BT #OSCILLATIONS  
 RT AERODYNAMIC STABILITY  
 FLAPPING  
 FLUTTER  
 STABLE OSCILLATIONS  
 UNDAMPED OSCILLATIONS  
 #VIBRATION  
**WING PANELS**  
 0102 0103 0104 0202  
 BT PANELS  
 #STRUCTURAL MEMBERS  
 RT CURVED PANELS  
 RECTANGULAR PANELS  
 WING CAMBER  
 WING PROFILES  
 WING ROOTS  
 WING SPAN  
 WING TIPS  
 WINGS  
**WING PLANFORMS**  
 0102 0104 0202  
 NT ARROW WINGS  
 DELTA WINGS  
 INFINITE SPAN WINGS  
 SWEEP FORWARD WINGS  
 SWEEPBACK WINGS  
 TRAPEZOIDAL WINGS  
 VARIABLE SWEEP WINGS

## WINGS

BT #PLANFORMS  
 RT HP-115 AIRCRAFT  
 LOW ASPECT RATIO WINGS  
 MONOPLANES  
 RECTANGULAR PLANFORMS  
 SLENDER WINGS  
 SWEEP WINGS  
 UNSWEEP WINGS  
**WING PROFILES**  
 0101 0102 0104 0201 1203  
 NT WING SPAN  
 BT #AIRFOIL PROFILES  
 RT MONOPLANES  
 SUPERCRITICAL WINGS  
 WING CAMBER  
 WING PANELS  
 WING ROOTS  
 WING TIPS  
 WINGS  
**WING ROOTS**  
 0102 0103 0104  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT CONFIGURATIONS  
 PAIRINGS  
 ROOTS  
 WING PANELS  
 WING PROFILES  
 WING TIPS  
**WING SLATS**  
 USE LEADING EDGE SLATS  
**WING SLOTS**  
 0102 0103 0104  
 BT SLOTS  
 RT BOUNDARY LAYER CONTROL  
 LEADING EDGE SLATS  
 VORTEX GENERATORS  
**WING SPAN**  
 0101 0102 0104 0201  
 BT #AIRFOIL PROFILES  
 WING PROFILES  
 RT SPAN  
 WING LOADING  
 WING PANELS  
 WINGS  
**WING STALL**  
 USE BOUNDARY LAYER SEPARATION  
**WING TANKS**  
 0102 0104 0202 2701  
 BT FUEL TANKS  
 #TANKS (CONTAINERS)  
 RT CONTAINERS  
 EXTERNAL STORES  
 JETTISON SYSTEMS  
 WING-FUSELAGE STORES  
**WING TIPS**  
 0102 0103 0104  
 BT TIPS  
 RT #AIRFOIL PROFILES  
 BLADE TIPS  
 WING PANELS  
 WING PROFILES  
 WING ROOTS  
 WINGS  
**WINGED ROCKET BOOSTERS**  
 USE #LAUNCH VEHICLES  
 WINGED VEHICLES  
**WINGED VEHICLES**  
 0102 0104 0201  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 UP WINGED ROCKET BOOSTERS  
 RT #DRONE VEHICLES  
 FIREBEEB 2 TARGET DRONE AIRCRAFT  
 #GLIDERS  
 #HYPERSONIC VEHICLES  
 #JET AIRCRAFT  
 #LAUNCH VEHICLES  
 #MISSILES  
 MONOPLANES  
 RECOVERABLE LAUNCH VEHICLES  
 RECOVERABLE SPACECRAFT  
 #REENTRY VEHICLES  
 RESEARCH AIRCRAFT  
 #ROCKET VEHICLES  
 SHORT TAKEOFF AIRCRAFT  
 SUPERCRITICAL WINGS  
 VERTICAL TAKEOFF AIRCRAFT  
 WINGS  
**WINGS**  
 0104  
 UP CANTILEVER WINGS

# WINTER

NT ARROW WINGS  
CAMBERED WINGS  
CARET WINGS  
CRUCIFORM WINGS  
DELTA WINGS  
FIXED WINGS  
FLEXIBLE WINGS  
INFINITE SPAN WINGS  
LIFTING ROTORS  
LOW ASPECT RATIO WINGS  
PARAWINGS  
RECTANGULAR WINGS  
RIGID ROTORS  
RIGID WINGS  
RING WINGS  
ROTARY WINGS  
SLENDER WINGS  
SUPERCRITICAL WINGS  
SWEEP FORWARD WINGS  
SWEEP WINGS  
SWEEPBACK WINGS  
THIN WINGS  
TILTING ROTORS  
TIP DRIVEN ROTORS  
TRAPEZOIDAL WINGS  
TWISTED WINGS  
UNCAMBERED WINGS  
UNSWEEP WINGS  
VARIABLE SWEEP WINGS  
BT #AIRFOILS  
RT AIRCRAFT PARTS  
AIRCRAFT STRUCTURES  
AIRFOIL FENCES  
AIRFRAMES  
ASPECT RATIO  
BODY-WING AND TAIL CONFIGURATIONS  
#COATINGS  
#CONTROL SURFACES  
MISSILE COMPONENTS  
ROTORS  
SPOILERS  
WING PANELS  
WING PROFILES  
WING SPAN  
WING TIPS  
WINGED VEHICLES  
WINTER  
2001 2003  
BT SEASONS  
RT COLD WEATHER  
EQUINOXES  
SOLSTICES  
#WIRE  
0701 0902 0904 0905 1504 1704  
NT ELECTRIC WIRE  
EXPLODING WIRES  
GUY WIRES  
RT BILLETS  
CABLES (ROPES)  
COILS  
CORDAGE  
#FASTENERS  
FILAMENTS  
FLAT CONDUCTORS  
JUMPERS  
REINFORCEMENT (STRUCTURES)  
RODS  
WIRING  
WIRE BRIDGE CIRCUITS  
0902 0905 1001  
NT WHEATSTONE BRIDGES  
BT #CIRCUITS  
ELECTRIC BRIDGES  
RT ELECTRIC WIRE  
EXPLODING WIRES  
WIRE CLOTH  
0903 1704 3203  
UF WIRE MESH  
RT FABRICS  
REINFORCEMENT (STRUCTURES)  
SCREENS  
SIEVES  
WIRE GRID LENSES  
1407 1412 2310  
BT LENSES  
RT GRIDS  
LENS ANTENNAS  
MAGNETIC LENSES  
TURNSTILE ANTENNAS  
WIRE MESH  
USE WIRE CLOTH

WIRE WINDING  
1002 1507 1704  
BT WINDING  
RT MAGNET COILS  
WIRING  
WIRELESS COMMUNICATIONS  
0702 0705 0709  
UF CARRIER SYSTEMS  
BT #TELECOMMUNICATION  
RT AIRCRAFT COMMUNICATION  
CLOSED CIRCUIT TELEVISION  
COMMUNICATION SATELLITES  
DATA LINKS  
DATA TRANSMISSION  
DIGITAL SPACECRAFT TELEVISION  
FACSIMILE COMMUNICATION  
GROUND-AIR-GROUND COMMUNICATIONS  
OPTICAL COMMUNICATION  
RADIO TELEMETRY  
#SIGNAL TRANSMISSION  
SPACE COMMUNICATION  
SPACECRAFT COMMUNICATION  
TELEMETRY  
VOICE COMMUNICATION  
WIRING  
0902 0904 1001 2304  
(PROCESS--AS DISTINGUISHED FROM MATERIAL)  
UF ELECTRIC WIRING  
WIRING SYSTEMS  
RT BUNDLES  
#CIRCUITS  
ELECTRICAL INSULATION  
FLAT CONDUCTORS  
SPlicing  
#TRANSMISSION LINES  
#WIRE  
WIRE WINDING  
WIRING SYSTEMS  
USE WIRING  
WISCONSIN  
1305  
BT UNITED STATES OF AMERICA  
WISWESSER NOTATIONS  
0601 0603  
BT CODING  
INDEXES (DOCUMENTATION)  
RT CHEMICAL COMPOUNDS  
CHEMISTRY  
#CLASSIFICATIONS  
IDENTIFYING  
MOLECULAR STRUCTURE  
REFERENCE SYSTEMS  
WKB APPROXIMATION  
USE WENTZEL-KRAMER-BRILLOUIN METHOD  
WOLVERINES  
0402  
BT #ANIMALS  
MAMMALS  
VERTEBRATES  
WOLVES  
0402  
BT #ANIMALS  
MAMMALS  
VERTEBRATES  
WOMEN  
USE FEMALES  
WOOD  
0409 1805  
NT CORK (MATERIALS)  
PLYWOOD  
RT BALSA  
CELLULOSE  
MASONITE (TRADEMARK)  
ORGANIC MATERIALS  
#PLANTS (BOTANY)  
SLIVERS  
TREES (PLANTS)  
WOODEN STRUCTURES  
WOOD AIRCRAFT CONSTRUCTION  
USE AIRCRAFT STRUCTURES  
WOODEN STRUCTURES  
WOODEN STRUCTURES  
0101 0102 3203  
UF WOOD AIRCRAFT CONSTRUCTION  
RT PLYWOOD  
STRUCTURES  
WOOD  
WOOL  
0402 0508 1811  
(LIMITED TO ANIMAL FIBERS)  
BT FABRICS

# NASA THESAURUS (ALPHABETICAL LISTING)

#FIBERS  
RT FELTS  
HAIR  
KERATINS  
ORGANIC MATERIALS  
SHEEP  
YARNS  
WORDS. (LANGUAGE)  
0702 0703 3405  
NT SYLLABLES  
BT #COMMUNICATION THEORY  
#LANGUAGES  
#LINGUISTICS  
SENTENCES  
#SPEECH  
SYNTAX  
TALKING  
RT CONSONANTS (SPEECH)  
CONVERSATION  
ENGLISH LANGUAGE  
GRAMMARS  
ORTHOGRAPHY  
PHONEMES  
PHONETICS  
PHONETICS  
SEMANTICS  
TERMINOLOGY  
VERBAL COMMUNICATION  
VOICE COMMUNICATION  
VOWELS  
WORK  
2308 2311 3406  
NT PHYSICAL WORK  
RT ENERGY  
HEAT  
HORSEPOWER  
KINETIC ENERGY  
OCCUPATION  
PHYSICAL FACTORS  
WORK CAPACITY  
1504 2308  
UF WORK DECREMENT  
RT ORBITAL WORKERS  
PHYSICAL FITNESS  
PHYSICAL WORK  
WORK DECREMENT  
USE WORK CAPACITY  
WORK FUNCTIONS  
1902 2402 2403 2603 3304  
UF SCHOTTKY EFFECT  
RT ELECTRON EMISSION  
FUNCTIONS  
IONIZATION POTENTIALS  
PERVEANCE  
PHOTOELECTRIC EMISSION  
THERMIONIC EMISSION  
WORK HARDENING  
2601 2603 3203  
NT STRAIN HARDENING  
BT #HARDENING (MATERIALS)  
RT COLD HARDENING  
MECHANICAL TWINNING  
#METAL WORKING  
PEENING  
SHOT PEENING  
WORK-REST CYCLE  
1504 3203  
BT #CYCLES  
RT FATIGUE (BIOLOGY)  
RELAXATION (PHYSIOLOGY)  
WORKHORSE HELICOPTER  
USE CH-21 HELICOPTER  
WORKING FLUIDS  
0303 1202 1203 1504 2501  
RT FLUID POWER  
FLUID TRANSMISSION LINES  
FLUIDS  
#HIGH TEMPERATURE FLUIDS  
JET CONDENSERS  
WORLD  
USE EARTH (PLANET)  
WORLD DATA CENTERS  
0803 3405 3409  
RT CENTERS  
DATA RETRIEVAL  
DATA STORAGE  
INTERNATIONAL GEOPHYSICAL YEAR  
LIBRARIES  
TRANSOCEANIC SYSTEMS  
WORMS  
0402 0404  
NT PLATFORMS

NASA THESAURUS (ALPHABETICAL LISTING)

W2F AIRCRAFT

BT #ANIMALS  
 RT INVERTEBRATES  
 RT LARVAE  
 WOUND HEALING  
 0405 0408  
 BT HEALING  
 RT #INJURIES  
 WRAP  
 1507 2305  
 (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS LISTED  
 BELOW)  
 RT COMPOSITE WRAPPING  
 PACKAGING  
 WRECKAGE  
 0201 3201  
 RT ACCIDENT INVESTIGATION  
 WRENCHES  
 1504  
 BT #TOOLS  
 WRINKLING  
 1704 3203  
 RT FLANGE WRINKLING  
 RT BUCKLING  
 #DEFORMATION  
 DISTORTION  
 RIDGES  
 WRIST  
 0404  
 RT #ANATOMY  
 JOINTS (ANATOMY)  
 MUSCULOSKELETAL SYSTEM  
 RT ARM (ANATOMY)  
 HAND (ANATOMY)  
 WROUGHT ALLOYS  
 1504 1701 1704  
 BT #ALLOYS  
 RT RENE 41  
 RENE 63  
 RENE 77  
 WASPALOY  
 WU-2 AIRCRAFT  
 USE U-2 AIRCRAFT  
 WURTZITE  
 1804 1806 2602  
 BT #CHALCOGENIDES  
 INORGANIC SULFIDES  
 #MINERALS  
 SULFIDES  
 #SULFUR COMPOUNDS  
 #ZINC COMPOUNDS  
 ZINC SULFIDES  
 WYOMING  
 1305  
 RT UNITED STATES OF AMERICA  
 W2F AIRCRAFT  
 USE E-2 AIRCRAFT

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**X**

**X-21A AIRCRAFT**  
0207  
BT #JET AIRCRAFT  
MONOPLANES  
NORTHROP AIRCRAFT  
RESEARCH AIRCRAFT  
RT LAMINAR FLOW

**X-22A AIRCRAFT**  
0207  
BT RESEARCH AIRCRAFT  
TANDEM WING AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

**X-1 AIRCRAFT**  
0207  
BT BELL AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
ROCKET PLANES  
#SUPERSONIC AIRCRAFT  
RT #ROCKET VEHICLES

**X-2 AIRCRAFT**  
0204 0207  
BT BELL AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
ROCKET PLANES  
#SUPERSONIC AIRCRAFT  
RT #ROCKET VEHICLES

**X-3 AIRCRAFT**  
0207 3401  
BT DOUGLAS AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
#SUPERSONIC AIRCRAFT

**X-5 AIRCRAFT**  
0207 3401  
BT BELL AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT

**X-13 AIRCRAFT**  
0207  
BT #JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
RYAN AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

**X-14 AIRCRAFT**  
0204 0207  
BT BELL AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

**X-15 AIRCRAFT**  
0204 0207  
BT NORTH AMERICAN AIRCRAFT  
RESEARCH AIRCRAFT  
ROCKET PLANES  
#SUPERSONIC AIRCRAFT  
RT LR-99 ENGINE  
#ROCKET VEHICLES  
XLR-99 ENGINE

**X-19 AIRCRAFT**  
0204 0207  
BT CURTISS-WRIGHT AIRCRAFT  
RESEARCH AIRCRAFT  
TANDEM WING AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

**X-20 AIRCRAFT**  
0204  
UP DYNA-SOAR SPACE GLIDER  
BT BOEING AIRCRAFT  
BOOSTGLIDE VEHICLES  
#GLIDERS  
HYPERSONIC AIRCRAFT  
HYPERSONIC GLIDERS  
#HYPERSONIC VEHICLES  
#LIFTING BODIES  
LIFTING REENTRY VEHICLES  
#REENTRY VEHICLES  
RESEARCH AIRCRAFT  
RT AEROSPACEPLANES  
ASTROPLANE  
#MANNED SPACECRAFT

**X-21 AIRCRAFT**  
0204 0207  
BT #JET AIRCRAFT  
MONOPLANES  
NORTHROP AIRCRAFT  
RESEARCH AIRCRAFT  
RT BOUNDARY LAYER CONTROL  
LAMINAR BOUNDARY LAYER

**X-22 AIRCRAFT**  
0204 0207  
BT BELL AIRCRAFT  
RESEARCH AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
RT TANDEM WING AIRCRAFT  
TILT WING AIRCRAFT

**X-24 AIRCRAFT**  
0103 0205  
BT #LIFTING BODIES  
LIFTING REENTRY VEHICLES  
RESEARCH AIRCRAFT  
RT AIRCRAFT

**X-258-A1 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
X-258 ENGINES

**X BAND**  
USE SUPERHIGH FREQUENCIES

**X-258-B1 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
X-258 ENGINES

**X-235 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT LITTLE JOHN ROCKET VEHICLE

**X-248 ENGINE**  
2808  
UP ALTAIR ENGINE  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT BLUE SCOUT ROCKET VEHICLE  
EXPLORER S-55 SATELLITE  
EXPLORER S-55  
SCOUT LAUNCH VEHICLE  
SHOTPUT SOUNDING ROCKETS  
VANGUARD 2 LAUNCH VEHICLE

**X-254 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT ANTARES ROCKET VEHICLE  
BLUE SCOUT ROCKET VEHICLE  
SCOUT LAUNCH VEHICLE

**X-259 ENGINE**  
2808  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
RT SCOUT LAUNCH VEHICLE

**X-405 ENGINE**  
2808  
BT BOOSTER ROCKET ENGINES  
#ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES  
RT VANGUARD PROJECT

**X-258 ENGINES**  
2808  
NT X-258-A1 ENGINE  
X-258-B1 ENGINE  
BT #ENGINES  
ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
SCOUT LAUNCH VEHICLE  
RT AIRCRAFT

**X RAY ABSORPTION**  
1704 2402 2406  
BT ELECTROMAGNETIC ABSORPTION  
#ENERGY ABSORPTION  
#RADIATION ABSORPTION  
RT ABSORPTION  
X RAY ANALYSIS  
X RAY DENSITY MEASUREMENT  
X RAY FLUORESCENCE

**X RAY SPECTROSCOPY**

**X RAY ANALYSIS**  
0501 1108 1404 2406  
UP X RAY FLUORESCENCE ANALYSIS  
NT LAUE METHOD  
RT ANALYZING  
CHEMICAL ANALYSIS  
CRYSTALLOGRAPHY  
#DEFECTS  
FLUOROSCOPY  
LATTICE PARAMETERS  
MATERIALS TESTS  
MICROANALYSIS  
MICROBEAMS  
RADIOGRAPHY  
RADIOLOGY  
STEREOCHEMISTRY  
STRESS ANALYSIS  
X RAY ABSORPTION  
X RAY APPARATUS  
X RAY DIFFRACTION  
X RAY FLUORESCENCE  
X RAY SPECTROSCOPY  
X RAY STRESS ANALYSIS

**X RAY APPARATUS**  
0501 1108 2402 2406  
RT EQUIPMENT  
RADIOGRAPHY  
X RAY ANALYSIS  
X RAY SPECTROSCOPY

**X RAY ASTRONOMY**  
1412 2402 2406 3001  
RT EXTARS  
RADIOGRAPHY  
SAS-C  
X RAY TELESCOPES

**X RAY DENSITY MEASUREMENT**  
1406 2402 2406  
BT DENSITY MEASUREMENT  
RT FLUX DENSITY  
X RAY ABSORPTION

**X RAY DIFFRACTION**  
0710 2402 2406  
BT DIFFRACTION  
RT CRYSTALLOGRAPHY  
ELECTRON DIFFRACTION  
LAUE METHOD  
METALLOGRAPHY  
RADIOGRAPHY  
X RAY ANALYSIS  
X RAY SCATTERING  
X RAYS

**X RAY FLUORESCENCE**  
0605 2306 2402 2406  
UP X RAY FLUORESCENCE ANALYSIS  
BT #DECAY  
EMISSION  
FLUORESCENCE  
LIGHT EMISSION  
LUMINESCENCE  
PHOTOLUMINESCENCE  
RT RADIOGRAPHY  
X RAY ABSORPTION  
X RAY ANALYSIS  
X RAYS

**X RAY FLUORESCENCE ANALYSIS**  
USE X RAY ANALYSIS  
X RAY FLUORESCENCE

**X RAY INSPECTION**  
0501 1505 2406  
UP X RAY TESTING  
BT INSPECTION  
RT #NONDESTRUCTIVE TESTS  
RADIOGRAPHY  
TESTS  
X RAY IRRADIATION

**X RAY IRRADIATION**  
0411 0501 2402 2406  
BT IRRADIATION  
RT X RAY INSPECTION

**X RAY PHOTOGRAPHY**  
USE #PHOTOGRAPHY  
RADIOGRAPHY

**X RAY SCATTERING**  
1704 2402 2406 2601  
BT ELECTROMAGNETIC SCATTERING  
#SCATTERING  
WAVE SCATTERING  
RT POM FACTORS  
X RAY DIFFRACTION

**X RAY SPECTROGRAPHY**  
USE X RAY SPECTROSCOPY

# X RAY SPECTROMETRY

**X RAY SPECTROMETRY**  
 USE X RAY SPECTROSCOPY  
**X RAY SPECTROSCOPY**  
 1404 1411 2406  
 UP X RAY SPECTROGRAPHY  
 X RAY SPECTROMETRY  
 BT #SPECTROSCOPY  
 RT ASTRONOMICAL SPECTROSCOPY  
 MATERIALS TESTS  
 MOLECULAR SPECTROSCOPY  
 RADIO SPECTROSCOPY  
 RADIOGRAPHY  
 SPECTROSCOPIC ANALYSIS  
 ULTRAVIOLET SPECTROSCOPY  
 VACUUM SPECTROSCOPY  
 X RAY ABSORPTION  
 X RAY ANALYSIS  
 X RAY APPARATUS  
 X RAYS  
**X RAY STRESS ANALYSIS**  
 1404  
 BT STRESS ANALYSIS  
 RT #STRESSES  
 TEMPERATURE INVERSIONS  
 X RAY ANALYSIS  
 X RAY STRESS MEASUREMENT  
**X RAY STRESS MEASUREMENT**  
 1404 1406 2406 3203  
 BT #MECHANICAL MEASUREMENT  
 STRESS MEASUREMENT  
 RT X RAY STRESS ANALYSIS  
**X RAY TELESCOPES**  
 1404 1412 2406 3001  
 BT ASTRONOMICAL TELESCOPES  
 #OPTICAL EQUIPMENT  
 #TELESCOPES  
 RT EXTARS  
 RADIOGRAPHY  
 X RAY ASTRONOMY  
**X RAY TESTING**  
 USE X RAY INSPECTION  
**X RAYS**  
 0405 0411 2402  
 NT SOLAR X-RAYS  
 BT #ELECTROMAGNETIC RADIATION  
 #IONIZING RADIATION  
 RT AURORAS  
 BLACKOUT (PROPAGATION)  
 BREMSSTRAHLUNG  
 COSMIC RAYS  
 EMISSION SPECTRA  
 EXTARS  
 #EXTRATERRESTRIAL RADIATION  
 FAR ULTRAVIOLET RADIATION  
 GAMMA RAYS  
 MONOCHROMATIC RADIATION  
 RADIOGRAPHY  
 SYNCHROTRON RADIATION  
 X RAY DIFFRACTION  
 X RAY FLUORESCENCE  
 X RAY SPECTROSCOPY  
**X-17 REENTRY VEHICLE**  
 3105  
 BT MULTISTAGE ROCKET VEHICLES  
 #REENTRY VEHICLES  
 RT #ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES  
**X-Y PLOTTERS**  
 1406 1504 1902  
 BT PLOTTERS  
 #RECORDING INSTRUMENTS  
 RT DIGITAL TO ANALOG CONVERTERS  
**XANTHIC ACIDS**  
 1703 1807  
 RT #ACIDS  
 BT ORGANIC LIQUIDS  
**XANTHINES**  
 0403 1808  
 NT CAFFEINE  
 GUANINES  
 URIC ACID  
 BT #FUNGICIDES  
 #HETEROCYCLIC COMPOUNDS  
 #NITROGEN COMPOUNDS  
 #PURINES  
**XB-47 AIRCRAFT**  
 USE B-47 AIRCRAFT  
**XB-70 AIRCRAFT**  
 USE B-70 AIRCRAFT  
**XC-142 AIRCRAFT**  
 0207 0209  
 UP C-142 AIRCRAFT

BT FAIRCHILD-HILLER AIRCRAFT  
 #JET AIRCRAFT  
 LING-TEMCO-VOUGHT AIRCRAFT  
 MONOPLANES  
 RYAN AIRCRAFT  
 TILT WING AIRCRAFT  
 #TRANSPORT AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 BT TURBOPROP ENGINES  
**XENON**  
 0603 1203 1807  
 BT XENON ISOTOPES  
 XENON 129  
 XENON 133  
 XENON 135  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 RARE GASES  
**XENON COMPOUNDS**  
 0603 1804  
 RT RARE GAS COMPOUNDS  
**XENON ISOTOPES**  
 2406  
 NT XENON 129  
 XENON 133  
 XENON 135  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 ISOTOPES  
 NUCLIDES  
 RARE GASES  
 XENON  
**XENON LAMPS**  
 0603 0605 1601 2306  
 BT #LIGHTING EQUIPMENT  
 LUMINAIRES  
 RT ARC LAMPS  
 FLASH LAMPS  
 INFRARED RADIATION  
 MERCURY LAMPS  
**XENON 129**  
 0603 1807 2406  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 ISOTOPES  
 NUCLIDES  
 RARE GASES  
 XENON  
 XENON ISOTOPES  
**XENON 133**  
 0603 1807 2406  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 RARE GASES  
 XENON  
 XENON ISOTOPES  
**XENON 135**  
 0603 1807 2406  
 BT #CHEMICAL ELEMENTS  
 #GASES  
 ISOTOPES  
 NUCLIDES  
 RADIOACTIVE ISOTOPES  
 RARE GASES  
 XENON  
 XENON ISOTOPES  
**XEROGRAPHY**  
 1002 1504 2402 3405  
 BT #IMAGERY  
 REPRODUCTION (COPYING)  
 RT ELECTROSTATIC CHARGE  
 PHOTOGRAPHS  
 #PHOTOGRAPHY  
**XH-51 HELICOPTER**  
 0206  
 UP AEROGYRO HELICOPTERS  
 CL-595 HELICOPTER  
 H-51 HELICOPTER  
 LOCKHEED CL-595 HELICOPTER  
 LOCKHEED 186 HELICOPTER  
 BT HELICOPTERS  
 LOCKHEED AIRCRAFT  
 RESEARCH AIRCRAFT  
 RIGID ROTOR HELICOPTERS  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
**XI HYPERONS**  
 2403

## NASA THESAURUS (ALPHABETICAL LISTING)

**XJ-79-GE-1 ENGINE**  
 USE J-79 ENGINE  
**XJ-34-WE-32 ENGINE**  
 USE J-34 ENGINE  
**XLR-91-AJ-5 ENGINE**  
 USE LR-91-AJ-5 ENGINE  
**XLR-81-BA-13 ENGINE**  
 2808  
 BT #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES  
 RT ATLAS AGENA B LAUNCH VEHICLE  
 THOR AGENA LAUNCH VEHICLE  
**XLR-58 ENGINE**  
 2808  
 BT #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES  
 RT BULLPUP MISSILES  
**XLR-99 ENGINE**  
 2808  
 BT #ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 ROCKET ENGINES  
 RT X-15 AIRCRAFT  
**XLR-115 ENGINE**  
 USE YLR-115 ENGINE  
**XN-33 ENGINE**  
 2808  
 UP TX-33-39 ENGINE  
 BT #ENGINES  
 ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 BLUE SCOUT ROCKET VEHICLE  
 EXOS SOUNDING ROCKET  
 JOURNEYMAN ROCKET VEHICLE  
 LITTLE JOE 2 LAUNCH VEHICLE  
 POLARIS MISSILES  
 SCOUT LAUNCH VEHICLE  
 SHOTPUT SOUNDING ROCKETS  
 TX-354 ENGINE  
**XN-6 SQUIB**  
 USE SQUIBS  
**XN-8 SQUIB**  
 USE SQUIBS  
**XT-761 ENGINE**  
 2805  
 BT ARC JET ENGINES  
 ELECTRIC ROCKET ENGINES  
 ELECTROTHERMAL ENGINES  
 ROCKET ENGINES  
**XV-5A AIRCRAFT**  
 USE XV-5 AIRCRAFT  
**XV-6A AIRCRAFT**  
 USE P-1127 AIRCRAFT  
**XV-8A AIRCRAFT**  
 0207 0209 3401  
 BT RESEARCH AIRCRAFT  
 RYAN AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT FLEXIBLE WINGS  
**XV-9A AIRCRAFT**  
 0207 3401  
 UP V-9 AIRCRAFT  
 BT HELICOPTERS  
 HUGHES AIRCRAFT  
 #JET AIRCRAFT  
 RESEARCH AIRCRAFT  
 ROTARY WING AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT TIP DRIVEN ROTORS  
**XV-11A AIRCRAFT**  
 0207 0209  
 BT RESEARCH AIRCRAFT  
 #V/STOL AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 RT AIRCRAFT  
 LIFT FANS  
 SHROUDED PROPELLERS  
**XV-3 AIRCRAFT**  
 0207 0209 3401  
 UP V-3 AIRCRAFT  
 BT BELL AIRCRAFT  
 #V/STOL AIRCRAFT  
 RT TILTING ROTORS  
**XV-4 AIRCRAFT**  
 0207 0209 3401  
 UP HUMMINGBIRD AIRCRAFT  
 LOCKHEED XV-4A AIRCRAFT  
 V-4 AIRCRAFT  
 VZ-10 AIRCRAFT  
 BT #JET AIRCRAFT



NASA THESAURUS (ALPHABETICAL LISTING)

XYLOSE

LOCKHEED AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
#V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
XV-5 AIRCRAFT

0207

UP V-5 AIRCRAFT  
VZ-11 AIRCRAFT  
XV-5A AIRCRAFT  
BT PAN IN WING AIRCRAFT  
#JET AIRCRAFT  
MONOPLANES  
RESEARCH AIRCRAFT  
RYAN AIRCRAFT  
#V/STOL AIRCRAFT

XYLENE

1808

BT #HYDROCARBONS

XYLOCAINE

0403 1808

BT ANESTHETICS  
#DRUGS

XYLOSE

0403 1808

BT #ALIPHATIC COMPOUNDS  
#CARBOHYDRATES  
MONOSACCHARIDES  
PENTOSE  
SUGARS

1969 International Let 516

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Y

Y AXIS  
USE #COORDINATES  
YAG (GARNET)  
USE YTTRIUM-ALUMINUM GARNET  
YAGI ANTENNAS  
0701 0705 0901

BT ANTENNA ARRAYS  
ANTENNAS  
#ARRAYS  
#CONDUCTORS  
DIRECTIONAL ANTENNAS  
ENDFIRE ARRAYS  
LINEAR ARRAYS  
RT ANTENNA DESIGN  
DIPOLE ANTENNAS  
DIRECTORS (ANTENNA ELEMENTS)  
WAVEGUIDE ANTENNAS

YAK 40 AIRCRAFT  
0201  
BT CIVIL AVIATION  
GENERAL AVIATION AIRCRAFT  
#JET AIRCRAFT  
LIGHT AIRCRAFT  
PASSENGER AIRCRAFT  
RT AIRCRAFT

YARNS  
1811  
RT CORDAGE  
#FIBERS  
ROVINGS  
STRANDS  
WOOL

YAW  
0101 0201  
UP DAMPING IN YAW  
FISHTAILING  
YAWMETERS  
RT AERODYNAMIC STABILITY  
DIRECTIONAL CONTROL  
DIRECTIONAL STABILITY  
LATERAL OSCILLATION  
MOTION  
PITCH (INCLINATION)  
ROLL  
ROTATION  
SIDESLIP  
SKIDDING  
TURNING FLIGHT  
YAWING MOMENTS

YAWING MOMENTS  
0101 0201  
BT #MOMENTS  
STABILITY DERIVATIVES  
RT AERODYNAMIC COEFFICIENTS  
LATERAL OSCILLATION  
MOMENTS OF INERTIA  
PITCHING MOMENTS  
ROLLING MOMENTS  
TORQUE  
YAW

YAWMETERS  
USE ATTITUDE INDICATORS  
YAW

YC-123 AIRCRAFT  
USE C-123 AIRCRAFT

YEAST  
0404 0407  
BT FUNGI  
#PLANTS (BOTANY)

YEMEN  
1305  
RT ASIA  
NATIONS

YP-102 AIRCRAFT  
USE P-102 AIRCRAFT

YHU-1 HELICOPTER  
USE UH-1 HELICOPTER  
YIELD  
3401 3402 3406 3408

RT OUTPUT  
YIELD POINT  
1704 2601 3203 3204  
UP LUDER BANDS  
BT #MECHANICAL PROPERTIES  
PLASTIC PROPERTIES  
RT TRESCA FLOW  
YIELD STRENGTH  
YIELD STRENGTH  
1704 2601 3203 3204

BT #MECHANICAL PROPERTIES  
RT ELASTIC PROPERTIES  
FRACTURE STRENGTH  
HIGH STRENGTH  
PLASTIC DEFORMATION  
STRESS-STRAIN DIAGRAMS  
#STRESSES  
TEMPERATURE INVERSIONS  
YIELD POINT

YIG (GARNET)  
USE YTTRIUM-IRON GARNET

YJ-79 ENGINE  
USE J-79 ENGINE  
YJ-85 ENGINE  
USE J-85 ENGINE  
YJ-93 ENGINE  
USE J-93 ENGINE  
YJ-73-GE-3 ENGINE  
USE J-73 ENGINE  
YJ-93-GE-3 ENGINE  
USE J-93 ENGINE  
YJ73 TURBOJET ENGINE  
USE J-73 ENGINE  
YLR-91-AJ-1 ENGINE  
2808

BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES

BT TITAN ICBM  
YLR-62 ENGINE  
USE LR-62 ENGINE  
YLR-115 ENGINE  
2808

UP YLR-115 ENGINE  
BT #ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
ROCKET ENGINES

RT CENTAUR LAUNCH VEHICLE  
YLR-101-NA-13 ENGINE  
2808

BT #ENGINES  
TORPEDO ENGINES  
VERNIER ENGINES  
RT ATLAS LAUNCH VEHICLES  
YLR-101-NA-15 ENGINE  
2808

BT #ENGINES  
TORPEDO ENGINES  
VERNIER ENGINES  
RT ATLAS LAUNCH VEHICLES  
YLR-99-RH-1 ENGINE  
USE LR-99 ENGINE

YO-YO DEVICES  
1409 1410 1504 2102  
RT ANGULAR ACCELERATION  
GYROSCOPIC STABILITY  
SATELLITE ROTATION  
#SPIN  
SPIN REDUCTION

YOKES  
0903 0905 2402

RT BEAM WAVEGUIDES  
CONNECTORS  
#COUPLERS  
COUPLES  
DEFLECTION  
FERROMAGNETIC MATERIALS  
JOINING  
LINKAGES  
MAGNET COILS

YOUNG-HELMHOLTZ THEORY  
0408 1411 2306 2310

RT COLOR VISION  
PHOTORECEPTORS  
YOUNG-MODULUS OF ELASTICITY  
USE MODULUS OF ELASTICITY

YOUTH  
3408

RT #GROWTH  
HUMAN BEINGS

YS-11 AIRCRAFT  
0201 0204  
UP NHON YS-11 AIRCRAFT  
BT #JET AIRCRAFT  
MONOPLANES  
NHON AIRCRAFT  
PASSENGER AIRCRAFT  
#TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT

YT-2 AIRCRAFT  
USE T-2 AIRCRAFT

YTTERBIUM  
1703

RT YTTERBIUM ISOTOPE  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS  
RT YTTERBIUM COMPOUNDS  
YTTERBIUM COMPOUNDS  
0603 1704 1804  
BT #RARE EARTH COMPOUNDS  
RT CHEMICAL COMPOUNDS  
METAL COMPOUNDS  
YTTERBIUM

YTTERBIUM ISOTOPE  
0603 1703  
BT #CHEMICAL ELEMENTS  
ISOTOPE  
RARE EARTH ELEMENTS  
YTTERBIUM

YTTRIUM  
1703  
RT YTTRIUM ISOTOPE  
BT #CHEMICAL ELEMENTS  
#METALS  
RARE EARTH ELEMENTS  
TRANSITION METALS

YTTRIUM ALLOYS  
1701 1704  
BT #ALLOYS  
YTTRIUM-ALUMINUM GARNET  
1804 2601

UP YAG (GARNET)  
BT GARNETS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
YTTRIUM COMPOUNDS  
RT FERRITES  
MAGNETOSTATIC AMPLIFIERS

YTTRIUM COMPOUNDS  
0603  
RT YTTRIUM-ALUMINUM GARNET  
YTTRIUM-IRON GARNET  
YTTRIUM OXIDES  
GROUP 3B COMPOUNDS  
METAL COMPOUNDS

YTTRIUM-IRON GARNET  
1804 2601  
UP YIG (GARNET)  
BT GARNETS  
#MINERALS  
SILICATES  
#SILICON COMPOUNDS  
YTTRIUM COMPOUNDS  
RT FERRITES  
MAGNETOSTATIC AMPLIFIERS  
WAVEGUIDE TUNERS

YTTRIUM ISOTOPE  
0603 1703 1704 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPE  
NUCLIDES  
RARE EARTH ELEMENTS  
YTTRIUM

YTTRIUM OXIDES  
0603 1804  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
YTTRIUM COMPOUNDS

YUGOSLAVIA  
1305

BT EUROPE  
RT NATIONS

YUH-1 HELICOPTER  
USE UH-1 HELICOPTER

YUKAWA POTENTIAL  
2401 2403 2405  
RT MESON-NUCLEON INTERACTIONS  
POTENTIAL

YUKON AIRCRAFT  
USE CL-44 AIRCRAFT

YURTUK METEORITE  
3005  
BT #CELESTIAL BODIES  
CHONDRITES  
METEORITES  
STONY METEORITES

# Z

**Z-37 AIRCRAFT**  
 0201  
 UF OMNIPOL 2-37 AIRCRAFT  
 BT MONOPLANES  
 OMNIPOL AIRCRAFT  
 UTILITY AIRCRAFT  
**Z AXIS**  
 USE #COORDINATES  
**Z TRANSFORM**  
 USE LAPLACE TRANSFORMATION  
**ZEMAN EFFECT**  
 2307 2401 2403  
 RT EFFECTS  
 #MAGNETIC FIELDS  
 #SPECTROSCOPY  
 SPECTRUM ANALYSIS  
 STARK EFFECT  
 VOIGT EFFECT  
**ZENER DIODES**  
 USE AVALANCHE DIODES  
**ZENER EFFECT**  
 1001 1002 2304  
 RT BARRIER LAYERS  
 CARRIERS  
 ELECTRIC DISCHARGES  
 FIELD EMISSION  
**ZENITH**  
 1901 3001 3003  
 RT ANTIPODES  
 APXES  
 CELESTIAL SPHERE  
 MAXIMA  
 NOON  
 SOLAR POSITION  
**ZEOLITES**  
 0603 1806  
 RT ION EXCHANGE RESINS  
 #MINERALS  
 SILICATES  
**ZERO ANGLE OF ATTACK**  
 0101 0201 1202 1203  
 BT ANGLE OF ATTACK  
**ZERO CROSSINGS**  
 USE ROOTS OF EQUATIONS  
**ZERO FORCE CURVES**  
 2308 2311  
 RT CURVATURE  
 CURVES  
 FORCE  
**ZERO GRAVITY**  
 USE WEIGHTLESSNESS  
**ZERO LIFT**  
 0101 0102 0103 0104 0201  
 BT #AERODYNAMIC CHARACTERISTICS  
 #AERODYNAMIC FORCES  
 #DYNAMIC CHARACTERISTICS  
 LIFT  
 RT AERODYNAMIC STALLING  
 BOUNDARY LAYER SEPARATION  
 #DISTRIBUTION (PROPERTY)  
**ZERO POWER REACTOR 2**  
 2203 2204  
 BT HEAVY WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 ZERO POWER REACTORS  
**ZERO POWER REACTOR 3**  
 2202 2203 2204  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 ZERO POWER REACTORS  
**ZERO POWER REACTOR 6**  
 2203 2204  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 ZERO POWER REACTORS  
**ZERO POWER REACTOR 7**  
 2204  
 BT BOILING WATER REACTORS  
 LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 ZERO POWER REACTORS  
**ZERO POWER REACTOR 9**  
 2203 2204  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 NUCLEAR RESEARCH AND TEST REACTORS  
 WATER COOLED REACTORS  
 ZERO POWER REACTORS  
**ZERO POWER REACTORS**  
 2202 2203 2204  
 UF ZPR REACTORS  
 NT ZERO POWER REACTOR 2  
 ZERO POWER REACTOR 3  
 ZERO POWER REACTOR 6  
 ZERO POWER REACTOR 7  
 ZERO POWER REACTOR 9  
 BT LIQUID COOLED REACTORS  
 #NUCLEAR REACTORS  
 WATER COOLED REACTORS  
**ZERO SOUND**  
 0710 2301 2312  
 BT #ACOUSTIC PROPERTIES  
 FLUX DENSITY  
 #RATES (PER TIME)  
 SOUND INTENSITY  
 RT ACOUSTIC ATTENUATION  
 ACOUSTICS  
 ANECHOIC CHAMBERS  
 REFLECTION  
 SILENCERS  
 SUBAUDIBLE FREQUENCIES  
**ZERO-ZERO WEATHER**  
 USE CEILINGS (METEOROLOGY)  
 WEATHER  
**ZETA AURIGAE STAR**  
 3001  
 BT #CELESTIAL BODIES  
 STARS  
**ZETA MACHINES**  
 USE ZETA THERMONUCLEAR REACTOR  
**ZETA THERMONUCLEAR REACTOR**  
 2203 2204  
 UF ZETA MACHINES  
 RT #FINCH EFFECT  
 THERMONUCLEAR POWER GENERATION  
 THERMONUCLEAR REACTIONS  
**ZEUS MISSILE**  
 USE NIKE-ZEUS MISSILE  
**ZIEGLER CATALYST**  
 0603 1808  
 BT CATALYSTS  
 RT POLYMERIZATION  
**ZINC**  
 0603 1703  
 NT ZINC ISOTOPES  
 BT #CHEMICAL ELEMENTS  
**ZINC ALLOYS**  
 1701 1704  
 BT #ALLOYS  
 RT BEARING ALLOYS  
 SOLDERS  
**ZINC ANTIMONIDES**  
 0603 1804  
 BT ANTIMONIDES  
 #ANTIMONY COMPOUNDS  
 #ZINC COMPOUNDS  
**ZINC COATINGS**  
 1802  
 UF GALVANIZING  
 BT #COATINGS  
 METAL COATINGS  
 RT PROTECTIVE COATINGS  
**#ZINC COMPOUNDS**  
 0603 1804  
 NT HODGKINSONITE  
 WURTZITE  
 ZINC ANTIMONIDES  
 ZINC FLUORIDES  
 ZINC OXIDES  
 ZINC SELENIDES  
 ZINC SULFIDES  
 ZINC TELLURIDES  
 ZINC TUNGSTATES  
 ZINCBLLENDE  
 RT GROUP 2B COMPOUNDS  
 METAL COMPOUNDS  
**ZINC FLUORIDES**  
 0603 1804  
 BT FLUORIDES  
 #FLUORINE COMPOUNDS  
 HALIDES  
 #HALOGEN COMPOUNDS  
 METAL HALIDES  
**#ZINC COMPOUNDS**  
 ZINC ISOTOPES  
 0607 0703 2406  
 BT #CHEMICAL ELEMENTS  
 ISOTOPES  
 NUCLIDES  
 ZINC  
**ZINC NICKEL BATTERIES**  
 USE NICKEL ZINC BATTERIES  
**ZINC OXIDES**  
 0603 1804  
 BT #CHALCOGENIDES  
 METAL OXIDES  
 OXIDES  
**#ZINC COMPOUNDS**  
**ZINC-OXYGEN BATTERIES**  
 0302 0904 0905 3401  
 BT DIRECT POWER GENERATORS  
 ELECTRIC BATTERIES  
 #ELECTRIC GENERATORS  
 #ELECTROCHEMICAL CELLS  
 METAL AIR BATTERIES  
 PRIMARY BATTERIES  
**ZINC SELENIDES**  
 0603 1804  
 BT #CHALCOGENIDES  
 SELENIDES  
 #SELENIUM COMPOUNDS  
 #ZINC COMPOUNDS  
**ZINC SILVER BATTERIES**  
 USE SILVER ZINC BATTERIES  
**ZINC SILVER OXIDE BATTERIES**  
 USE SILVER ZINC BATTERIES  
**ZINC SULFIDES**  
 0603 1804  
 NT WURTZITE  
 ZINCBLLENDE  
 BT #CHALCOGENIDES  
 INORGANIC SULFIDES  
 SULFIDES  
 #SULFUR COMPOUNDS  
 #ZINC COMPOUNDS  
**ZINC TELLURIDES**  
 0603 1804  
 BT #CHALCOGENIDES  
 TELLURIDES  
 #TELLURIUM COMPOUNDS  
 #ZINC COMPOUNDS  
**ZINC TUNGSTATES**  
 0603 1804  
 BT TUNGSTATES  
 #TUNGSTEN COMPOUNDS  
 #ZINC COMPOUNDS  
**ZINCBLLENDE**  
 1806  
 UF SPHALERITE  
 BT #CHALCOGENIDES  
 INORGANIC SULFIDES  
 #MINERALS  
 SULFIDES  
 #SULFUR COMPOUNDS  
 #ZINC COMPOUNDS  
 ZINC SULFIDES  
**ZIPPER**  
 0508  
 BT #FASTENERS  
 RT BUTTONS (FASTENERS)  
 HOLDERS  
**ZIRCALOY 2 (TRADEMARK)**  
 1701 1704 3305  
 BT #ALLOYS  
 ZIRCALOYS (TRADEMARK)  
 ZIRCONIUM ALLOYS  
**ZIRCALOYS (TRADEMARK)**  
 1701 1704 3305  
 NT ZIRCALOY 2 (TRADEMARK)  
 BT #ALLOYS  
 ZIRCONIUM ALLOYS  
 RT IRON ALLOYS  
 TIN ALLOYS  
**ZIRCONATES**  
 0603  
 NT BARIUM ZIRCONATES  
 SODIUM FLUOZIRCONATES  
 STRONTIUM ZIRCONATES  
 BT #ZIRCONIUM COMPOUNDS  
**ZIRCONIUM**  
 0603 1703  
 NT ZIRCONIUM ISOTOPES  
 ZIRCONIUM 95  
 BT #CHEMICAL ELEMENTS  
 #METALS

# ZIRCONIUM ALLOYS

TRANSITION METALS  
ZIRCONIUM ALLOYS  
1701 1704  
BT ZIRCALOY 2 (TRADEMARK)  
ZIRCALOYS (TRADEMARK)  
BT #ALLOYS  
ZIRCONIUM CARBIDES  
0603  
BT CARBIDES  
#CARBON COMPOUNDS  
#ZIRCONIUM COMPOUNDS  
#ZIRCONIUM COMPOUNDS  
0603  
BT BARIUM ZIRCONATES  
SODIUM FLUOZIRCONATES  
STRONTIUM ZIRCONATES  
ZIRCONATES  
ZIRCONIUM CARBIDES  
ZIRCONIUM HYDRIDES  
ZIRCONIUM IODIDES  
ZIRCONIUM NITRIDES  
ZIRCONIUM OXIDES  
ZIRCONIUM TITANATES  
GROUP 4B COMPOUNDS  
METAL COMPOUNDS  
BT ZIRCONIUM HYDRIDES  
0603 1804  
BT HYDRIDES  
#HYDROGEN COMPOUNDS  
#ZIRCONIUM COMPOUNDS  
ZIRCONIUM IODIDES  
0603 1804  
BT HALIDES  
#HALOGEN COMPOUNDS  
IODIDES  
IODINE COMPOUNDS  
METAL HALIDES  
#ZIRCONIUM COMPOUNDS  
ZIRCONIUM ISOTOPE  
2406  
BT ZIRCONIUM 95  
BT #CHEMICAL ELEMENTS  
ISOTOPE  
NUCLIDES  
TRANSITION METALS  
ZIRCONIUM  
ZIRCONIUM NITRIDES  
0603 1804  
BT NITRIDES  
#NITROGEN COMPOUNDS  
#ZIRCONIUM COMPOUNDS  
ZIRCONIUM OXIDES  
0603 1804  
BT #CHALCOGENIDES  
METAL OXIDES  
OXIDES  
#ZIRCONIUM COMPOUNDS  
ZIRCONIUM TITANATES  
0603 1804  
BT TITANATES  
#TITANIUM COMPOUNDS  
#ZIRCONIUM COMPOUNDS  
ZIRCONIUM 95  
1703 2406  
BT #CHEMICAL ELEMENTS  
ISOTOPE  
NUCLIDES  
RADIOACTIVE ISOTOPE  
TRANSITION METALS  
ZIRCONIUM  
ZIRCONIUM ISOTOPE  
ZODIAC  
3001 3009  
BT ASTROLOGY  
CONSTELLATIONS  
ECLIPTIC  
ZODIACAL DUST  
2003 3001 3009  
BT #CELESTIAL BODIES  
COSMIC DUST  
#DUST  
INTERPLANETARY DUST  
INTERPLANETARY MEDIUM  
#MEDIA  
METEOROID DUST CLOUDS  
METEORIDS  
MICROMETEORIDS  
BT EXPLORER SATELLITES  
POYNTING-ROBERTSON EFFECT  
TERRESTRIAL DUST BELT  
ZODIACAL LIGHT

ZODIACAL LIGHT  
1308 2003 2306 3009  
BT #ELECTROMAGNETIC RADIATION  
#EXTRATERRESTRIAL RADIATION  
LIGHT (VISIBLE RADIATION)  
BT GEGENSCHREIN  
MICROMETEORIDS  
NIGHT SKY  
POLARIZED LIGHT  
POYNTING-ROBERTSON EFFECT  
SKY BRIGHTNESS  
SOLAR RADIATION  
SUNLIGHT  
ZODIACAL DUST  
ZONAL HARMONICS  
1308 1901 1904 3003  
BT #ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
HARMONIC ANALYSIS  
HARMONICS  
ZOND 1 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
ZOND SPACE PROBES  
ZOND 2 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
MARS PROBES  
SPACE PROBES  
#UNMANNED SPACECRAFT  
ZOND SPACE PROBES  
ZOND 3 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
ZOND SPACE PROBES  
ZOND 4 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
ZOND 5 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
ZOND 6 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
ZOND 7 SPACE PROBE  
3108 3409  
BT #INTERPLANETARY SPACECRAFT  
SPACE PROBES  
#UNMANNED SPACECRAFT  
VENUS PROBES  
ZOND SPACE PROBES  
3108 3409  
BT ZOND 1 SPACE PROBE  
ZOND 2 SPACE PROBE  
ZOND 3 SPACE PROBE  
ZOND 4 SPACE PROBE  
ZOND 5 SPACE PROBE  
ZOND 6 SPACE PROBE  
ZOND 7 SPACE PROBE  
BT #INTERPLANETARY SPACECRAFT  
#UNMANNED SPACECRAFT  
BT MARS PROBES  
ZONE MELTING  
0602 1704 2601 3303  
UF ZONE REFINING  
BT FREEZING  
#PHASE TRANSFORMATIONS  
BT ARC MELTING  
CRYSTALLIZATION  
MELTING  
PURIFICATION  
REFINING  
SEPARATION  
ULTRAPURE METALS  
VACUUM MELTING

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USE ZONE MELTING  
ZONES  
USE #REGIONS  
ZOOLOGY  
0402 0404  
(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS LISTED  
BELOW)  
BT #ANIMALS  
BOTANY  
ENTOMOLOGY  
TAXONOMY  
ZPR REACTORS  
USE ZERO POWER REACTORS  
ZUNI ROCKET VEHICLE  
3101 3401  
BT #ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
BT SOLID PROPELLANT ROCKET ENGINES

1. Report No. NASA SP-7040	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle  NASA THESAURUS ALPHABETICAL UPDATE		5. Report Date September 1971	
		6. Performing Organization Code	
7. Author(s)		8. Performing Organization Report No.	
		10. Work Unit No.	
9. Performing Organization Name and Address National Aeronautics and Space Administration Washington, D. C. 20546		11. Contract or Grant No.	
		13. Type of Report and Period Covered	
12. Sponsoring Agency Name and Address		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract  The NASA THESAURUS - ALPHABETICAL UPDATE is an alphabetical listing of all subject terms (postable and nonpostable) that are currently approved for use in the NASA scientific and technical information system. Contained in the listing are the subject terms that were listed in the Preliminary Edition of the NASA THESAURUS and the additional subject terms that were approved during the period, January 1, 1967 - June 30, 1971. Complete Thesaurus structuring, including scope notes, category assignments, and cross-references, is provided for each term as appropriate.			
17. Key Words (Suggested by Author(s)) Authority Lists                      Thesauri Coordinate Indexing Document Processing Information Storage and Retrieval NASA Programs		18. Distribution Statement  Unclassified - Unlimited	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 622	22. Price* \$6.00-HC

For sale by the National Technical Information Service, Springfield, Virginia 22151



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